

NOTES:

1. PRECAST MANHOLE SHALL MEET THE REQUIREMENTS OF ASTM C-478 WITH MINIMUM 4,000 PSI CONCRETE STRENGTH AND TYPE I/II PORTLAND CEMENT. REINFORCING SHALL MEET THE REQUIREMENTS OF ASTM A-185 AND A-615 (REINFORCEMENT NOT SHOWN).
2. FOR MANHOLES LOCATED IN DELDOT ROADWAYS, THE FRAME MANHOLE STACK TRANSITION SHALL BE ORIENTED SUCH THAT FRAME AND COVER IS LOCATED OUTSIDE OF THE WHEEL PATH WHENEVER POSSIBLE. PROVIDE INDIVIDUAL CUT SHEETS FOR ALL MANHOLES INSTALLED WITHIN DELDOT ROADWAYS. DELDOT WILL REQUIRE A CONCRETE COLLAR ON STATE MAINTAINED ROADWAYS - REFER TO CURRENT DELDOT REQUIREMENTS.
3. CONCRETE COLLAR DIMENSIONS ALSO APPLY FOR TERMINAL CLEANOUTS WHEN TERMINAL CLEANOUTS ARE NOT IN PAVED ROADWAYS. ALL CONCRETE SHALL BE POURED AGAINST UNDISTURBED EARTH.
4. COUNTY INSPECTOR WILL DETERMINE STUB LENGTH BASED ON FIELD CONDITIONS.
5. CEMENT MORTAR SHALL BE APPLIED AT ALL JOINTS WITHIN MANHOLE.
6. SEE PLANS & SPECIFICATIONS FOR REQUIREMENTS FOR MANHOLES GREATER THAN 48" IN DIAMETER.



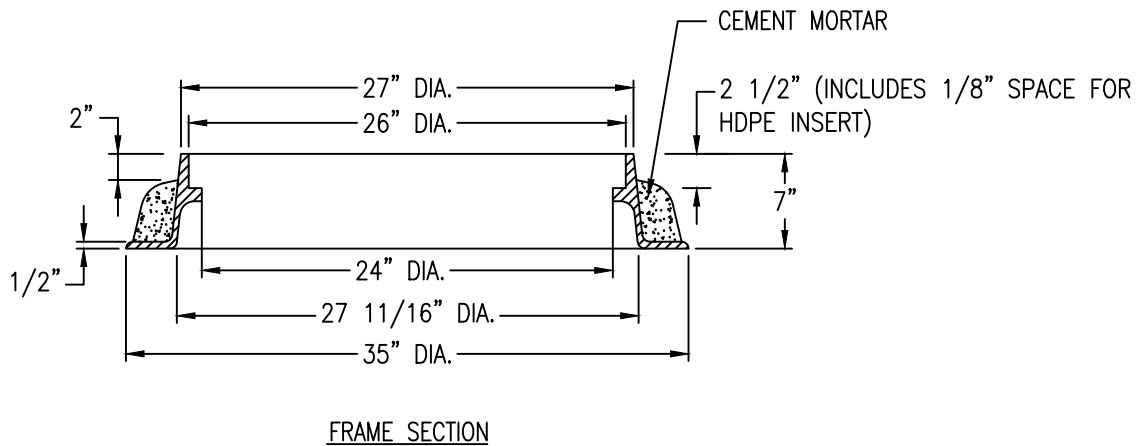
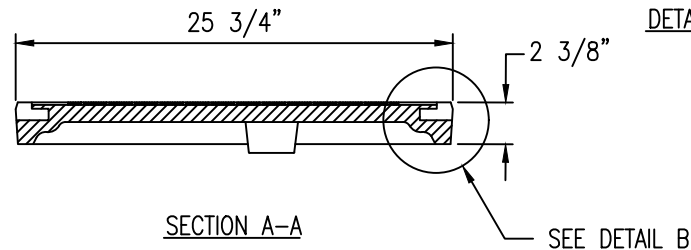
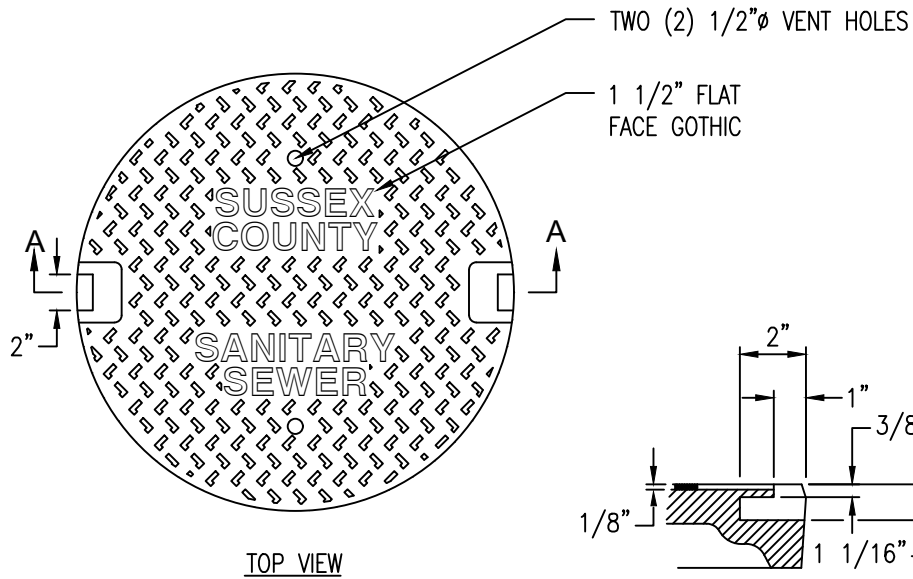
SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

PRECAST CONCRETE MANHOLE

DETAIL
S-1.01

DATE ISSUED:
12/30/2021



NOTES:

1. SEWER MANHOLE COVERS INSTALLED IN PEDESTRIAN WALKWAY MUST BE ADA COMPLIANT.
2. MANHOLE FRAME AND COVER MUST BE PRODUCED AND FINISHED IN THE UNITED STATES.



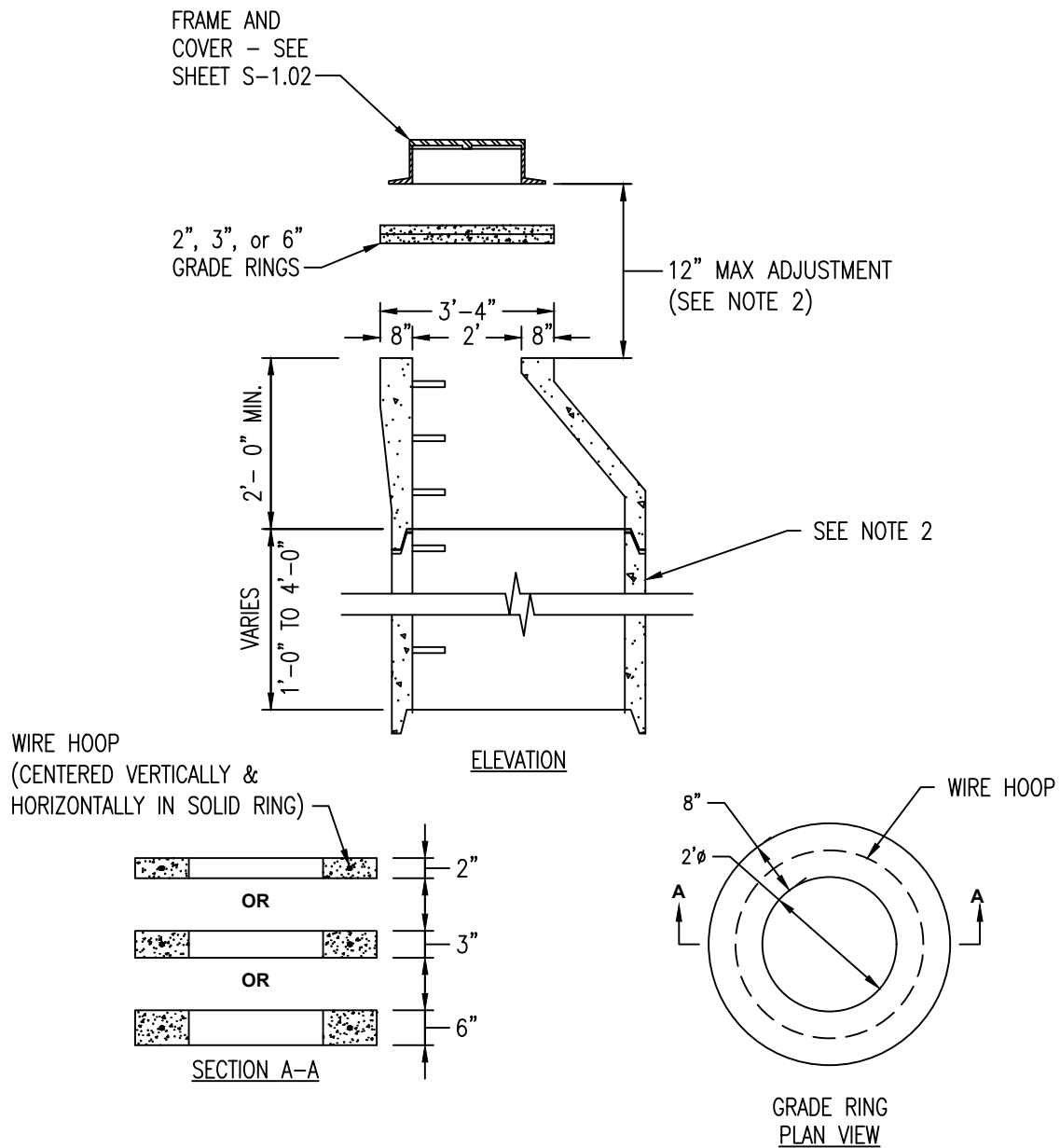
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SUSSEX COUNTY ENGINEER

MANHOLE FRAME
AND COVER

DETAIL
S-1.02

DATE ISSUED:
5/31/2022



NOTES:

1. PRECAST MANHOLE SHALL MEET THE REQUIREMENTS OF ASTM C-478 WITH MINIMUM 4,000 PSI CONCRETE STRENGTH AND TYPE I/II PORTLAND CEMENT.
2. IF ADJUSTMENT HEIGHT EXCEEDS 12", A ONE (1) FOOT RISER INSTALLED BELOW CONE SECTION WILL BE REQUIRED. A MAXIMUM OF THREE (3) GRADE RINGS WILL BE ALLOWED.
3. ALTERNATE MATERIAL GRADE RINGS MAY BE USED FOR MANHOLES LOCATED OUTSIDE OF ROADWAY LIMITS, SUBJECT TO COUNTY APPROVAL.
4. BRICK ADJUSTMENT COURSES PERMITTED, SUBJECT TO DIMENSION REQUIREMENTS NOTED ABOVE.
5. CONCRETE RING SHALL HAVE A DESIGN STRENGTH OF 5000 PSI IN 28 DAYS - DESIGN SHALL MEET REQUIREMENTS OF ASTM C-478



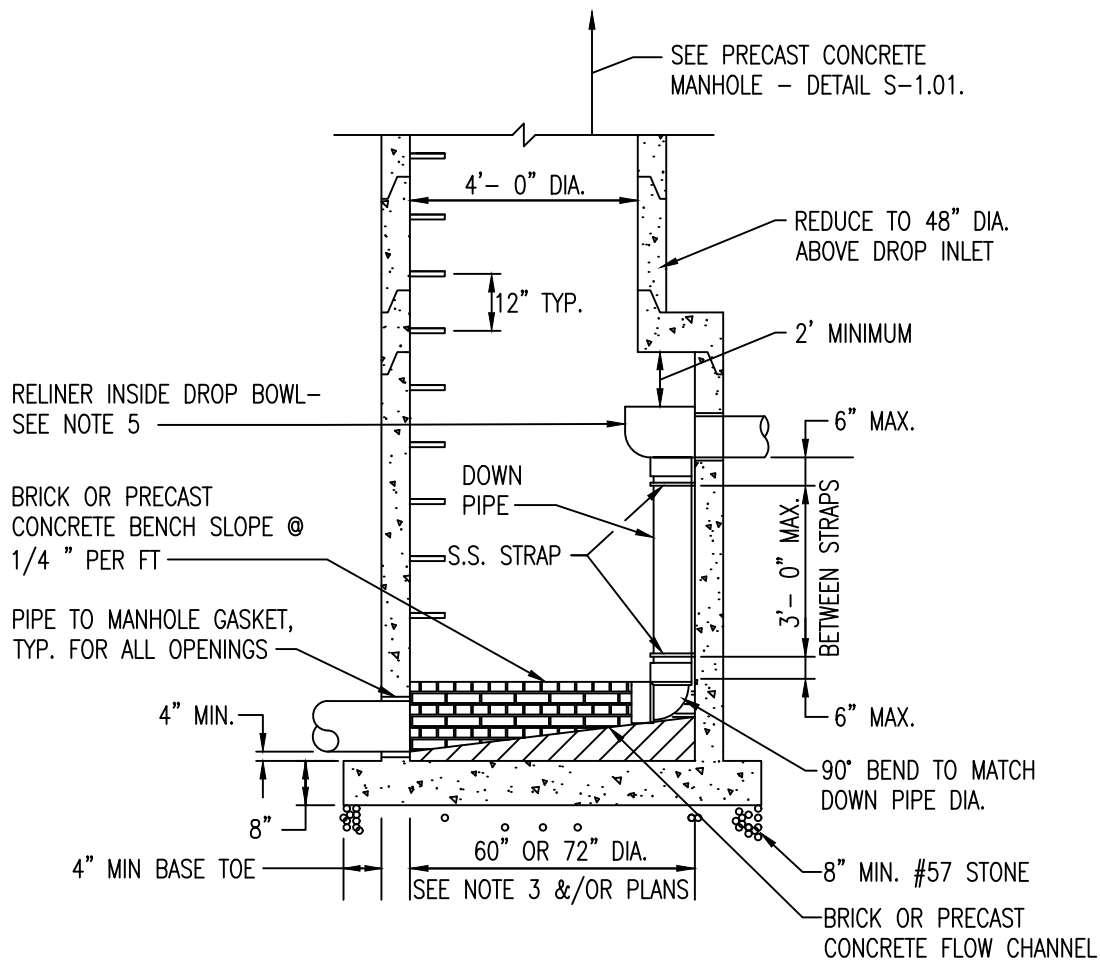
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SUSSEX COUNTY ENGINEER

**MANHOLE FRAME AND
COVER ADJUSTMENT**

DETAIL
S-1.03

DATE ISSUED:
12/30/2021



ELEVATION

NOTES:

1. STAINLESS STEEL STRAPS SHALL BE 1/8" X 1" MIN.
2. S.S. STRAP CONNECTORS SHALL BE EXPANSION BOLTS OR APPROVED EQUAL.
3. A 72" DIAMETER MANHOLE SHALL BE PROVIDED WITH TWO DROP CONNECTIONS IN MANHOLE; A 60" DIAMETER MANHOLE SHALL BE PROVIDED WITH A SINGLE DROP.
4. A DROP MANHOLE IS NOT REQUIRED WHEN THE DIFFERENCE IN INVERTS IS LESS THAN 2'. FOR DIFFERENCES IN INVERTS LESS THAN 2', PROVIDE A SMOOTH TRANSITION WITHIN THE FLOW CHANNEL.
5. INSTALL A RELINER INSIDE DROP BOWL CONSISTING OF BOWL, HOOD, AND SECURED WITH STAINLESS STEEL FASTENERS, OR APPROVED EQUAL
6. SIZE OF DOWN PIPE SHALL BE PER MANUFACTURER RECOMMENDATIONS, WITH AN 8" MIN. DIAMETER.



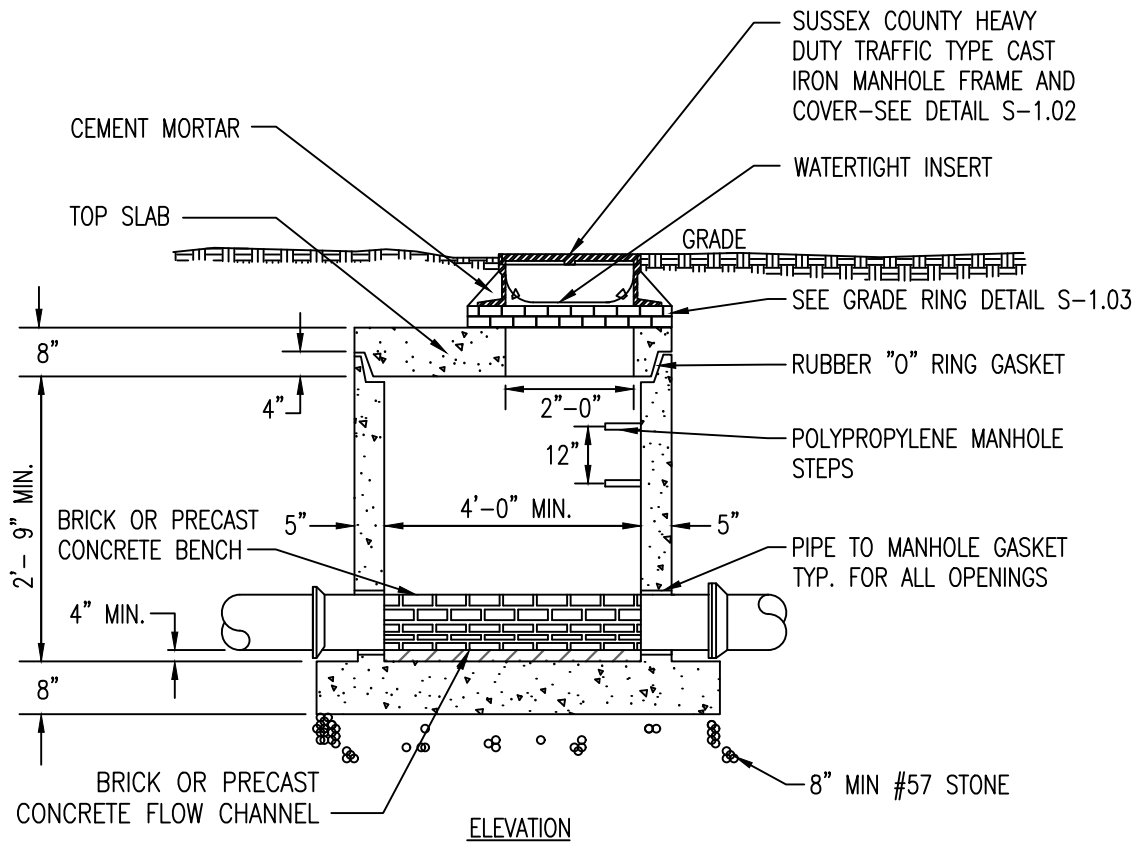
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INSIDE DROP
MANHOLE

DETAIL
S-1.04

DATE ISSUED:
12/30/2021



NOTE:
SEE DETAIL S-1.01 FOR ADDITIONAL MANHOLE DETAILS.



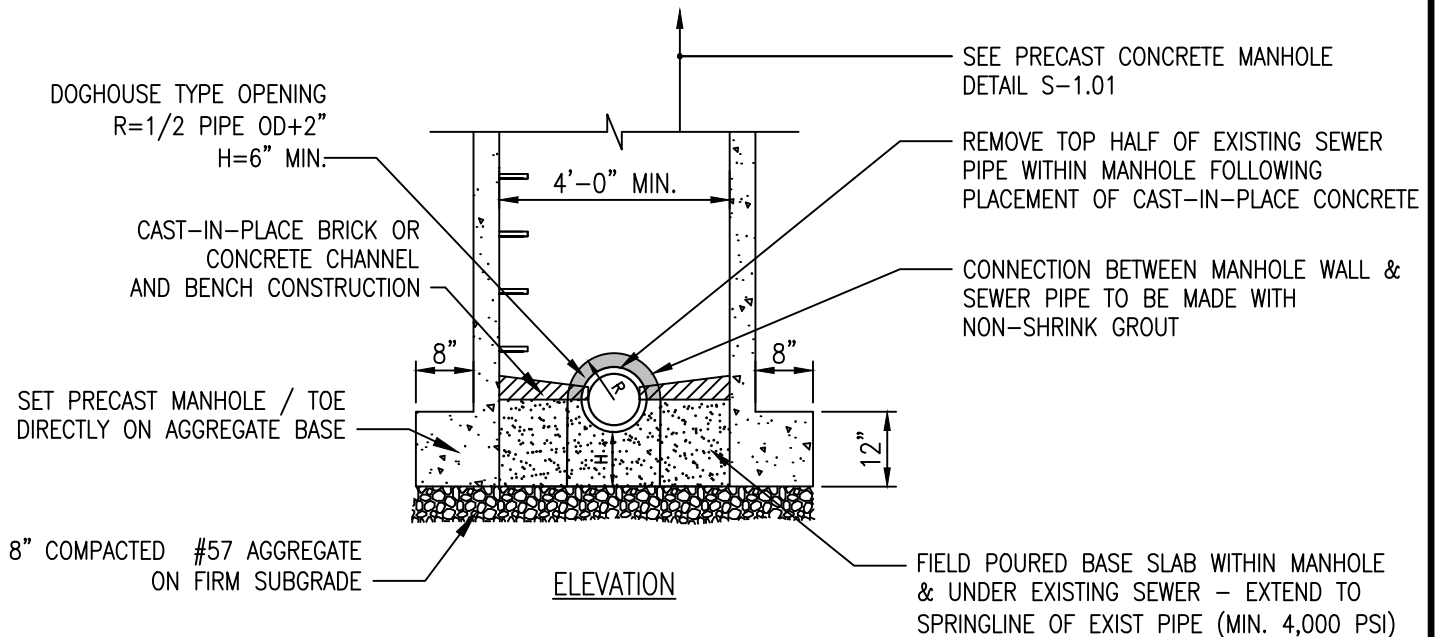
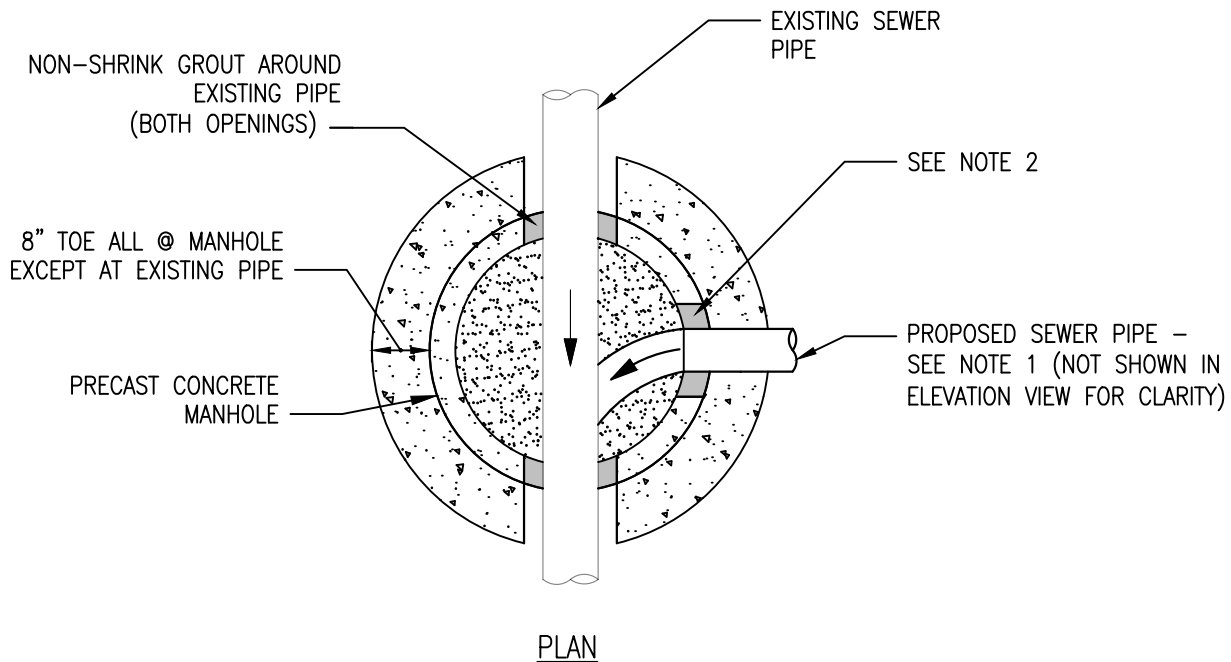
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ENGINEERING DEPARTMENT

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48" DIAMETER
SHALLOW PRECAST
MANHOLE

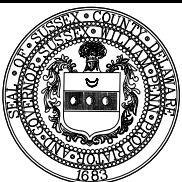
DETAIL
S-1.05

DATE ISSUED:
12/30/2021



NOTES:

1. INCOMING INVERT OF PROPOSED SEWER SHALL BE EQUAL TO OR GREATER THAN THE SPRING LINE OF EXISTING SEWER PIPE.
2. CORE MANHOLE WALL AS REQUIRED TO ACCEPT PROPOSED PIPE. OPENING SHALL BE SEALED WITH LINK-SEAL MODULAR SEAL FOLLOWING PLACEMENT OF PIPE.
3. PLACEMENT OF DOGHOUSE MANHOLE SHALL BE SUCH THAT EXISTING PIPE JOINT FALLS ENTIRELY OUTSIDE LIMITS OF MANHOLE.



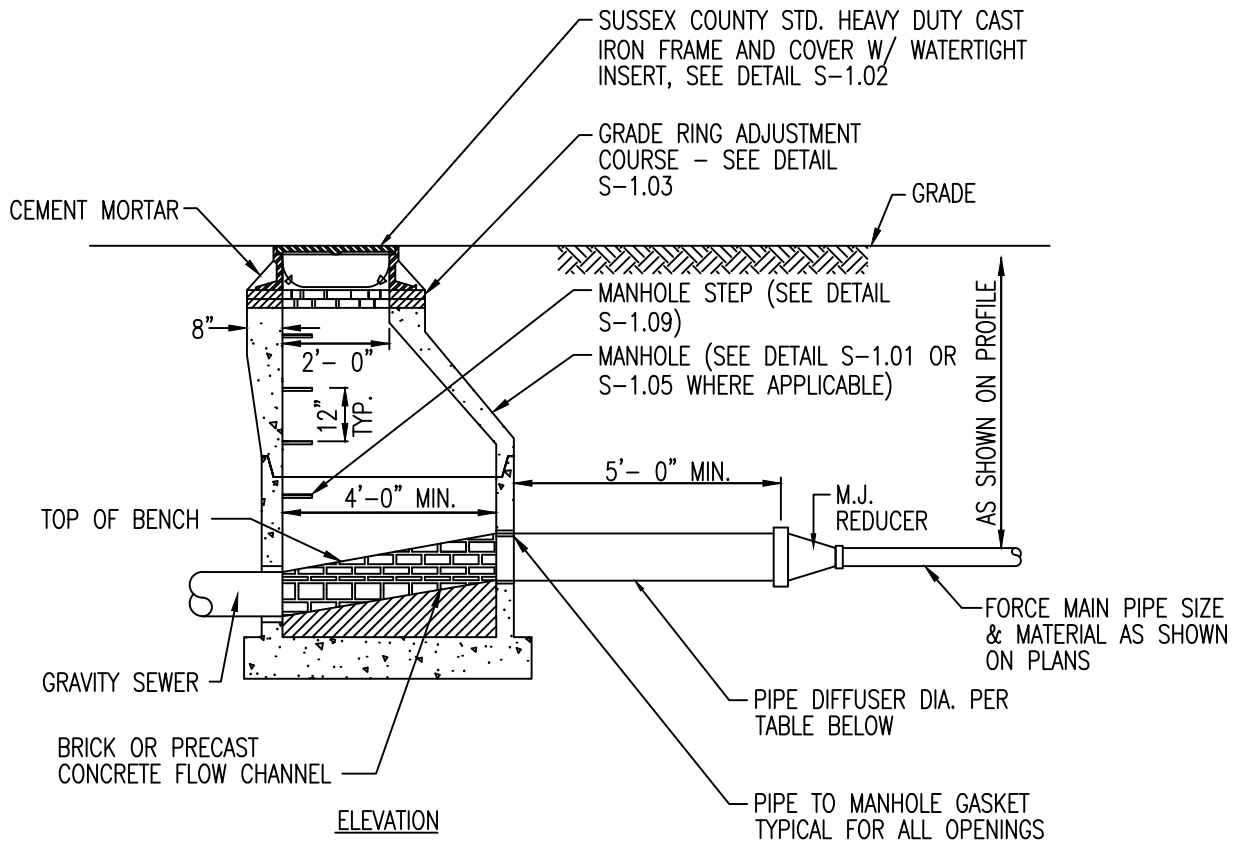
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ENGINEERING DEPARTMENT

APPROVED: 
SUSSEX COUNTY ENGINEER

DOGHOUSE MANHOLE

DETAIL
S-1.06

DATE ISSUED:
12/30/2021



NOTES:

1. COAT INTERIOR SURFACES OF MANHOLE WITH AMINE CURED EPOXY, TWO (2) COATS 16.0 TO 24.0 MIL TOTAL.
2. SEE DETAIL S-1.01 FOR ADDITIONAL MANHOLE DETAILS

FORCE MAIN PIPE DIA. (IN.)	DIFFUSER PIPE DIA. (IN.)
2	4
4	6
6	10
8	12
10	14
12	18
14	20



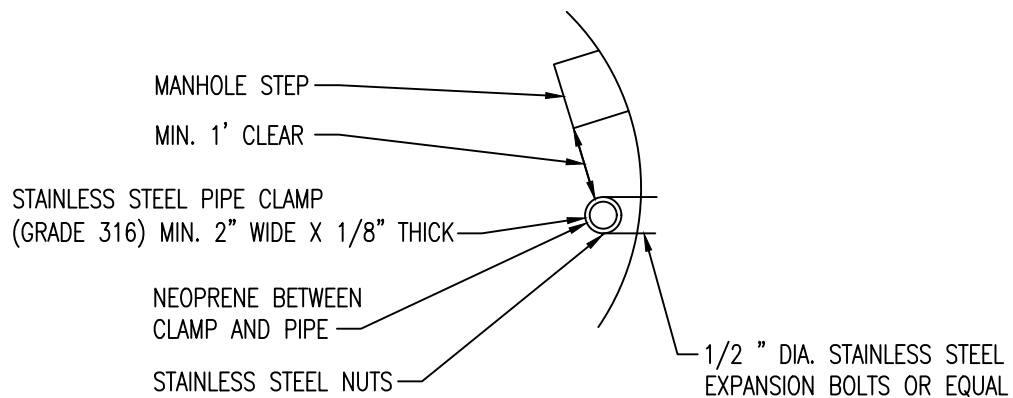
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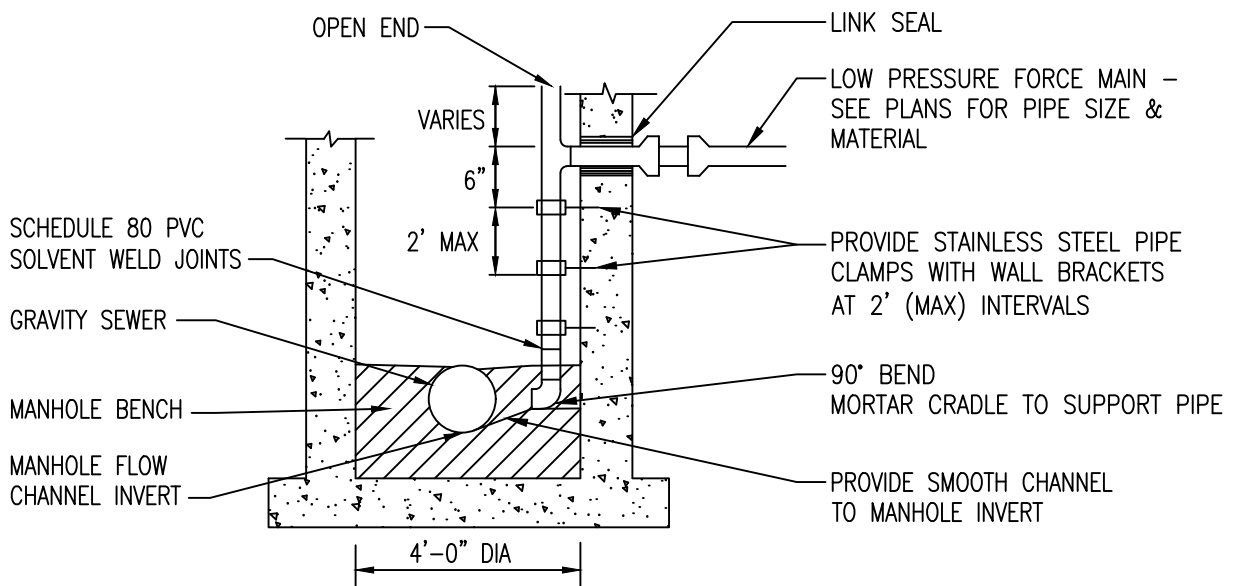
FORCE MAIN
DISCHARGE MANHOLE

DETAIL
S-1.07

DATE ISSUED:
12/30/2021



MANHOLE CONNECTION



NOTES:

1. CONNECTION CONFIGURATION ONLY APPLICABLE TO LOW PRESSURE SYSTEM CONNECTING INTO EXISTING MANHOLE. FOR NEW CONSTRUCTION, REFER TO DETAIL S-1.07.
2. COAT INTERIOR SURFACES OF MANHOLE WITH AMINE CURED EPOXY TWO (2) COATS 16.0 TO 24.0 MIL TOTAL.



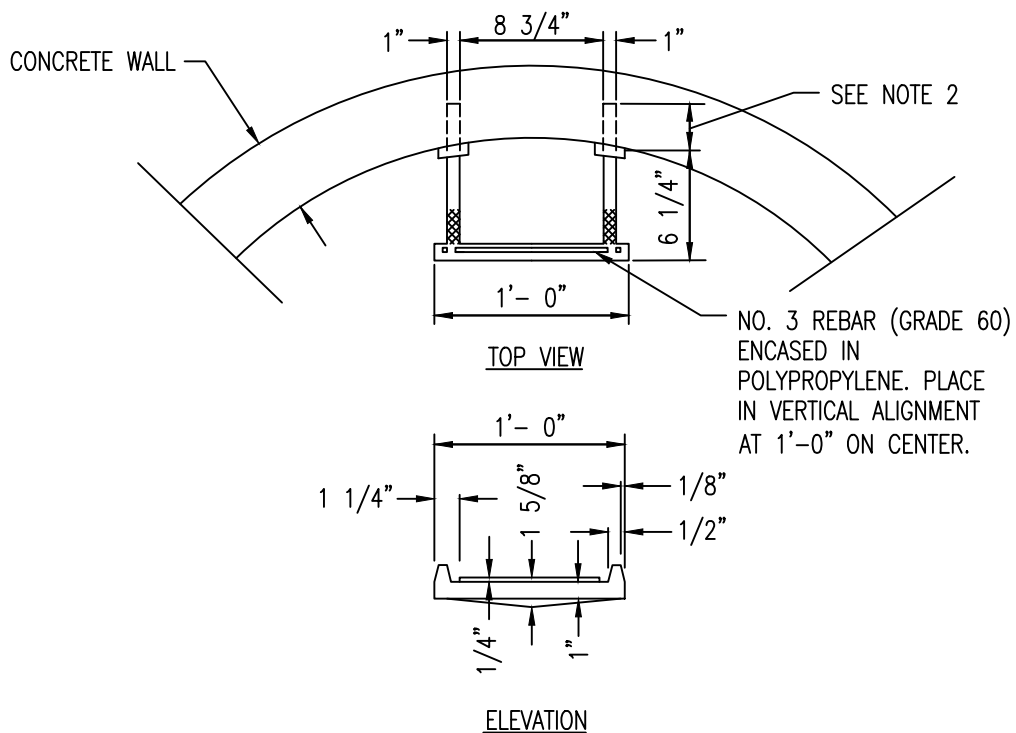
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ENGINEERING DEPARTMENT

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SUSSEX COUNTY ENGINEER

LOW PRESSURE
FORCE MAIN DISCHARGE

DETAIL
S-1.08

DATE ISSUED:
12/30/2021



NOTES:

1. STEPS SHALL BE ORIENTED OVER BENCH AND NOT FLOW CHANNEL. BOTTOM STEP SHALL BE 12" MAX. FROM TOP OF BENCH.
2. EMBEDMENT LENGTH OF REBAR SHALL BE SUITABLE FOR 5" MIN. WALL THICKNESS.



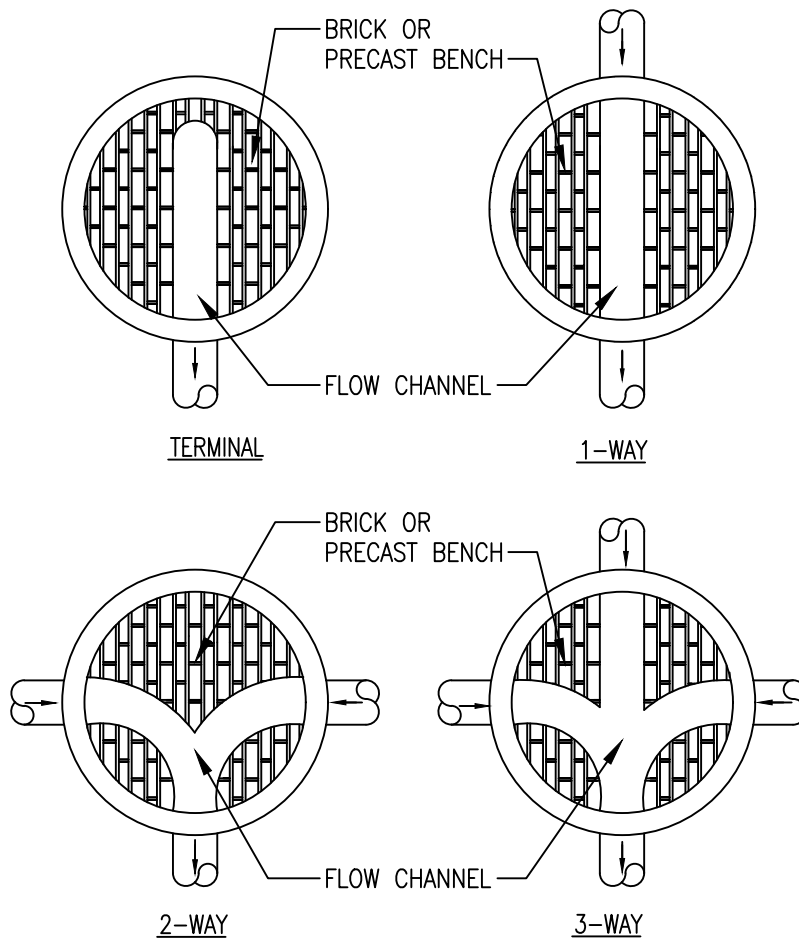
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SUSSEX COUNTY ENGINEER

MANHOLE STEP

DETAIL
S-1.09

DATE ISSUED:
12/30/2021



NOTES:

1. PRECAST CONCRETE CHANNELS MAY BE PROVIDED AS AN ALTERNATIVE TO BRICK FLOW CHANNEL AND BENCH.
2. BENCH SHALL BE PROVIDED UP TO PIPE CROWN.



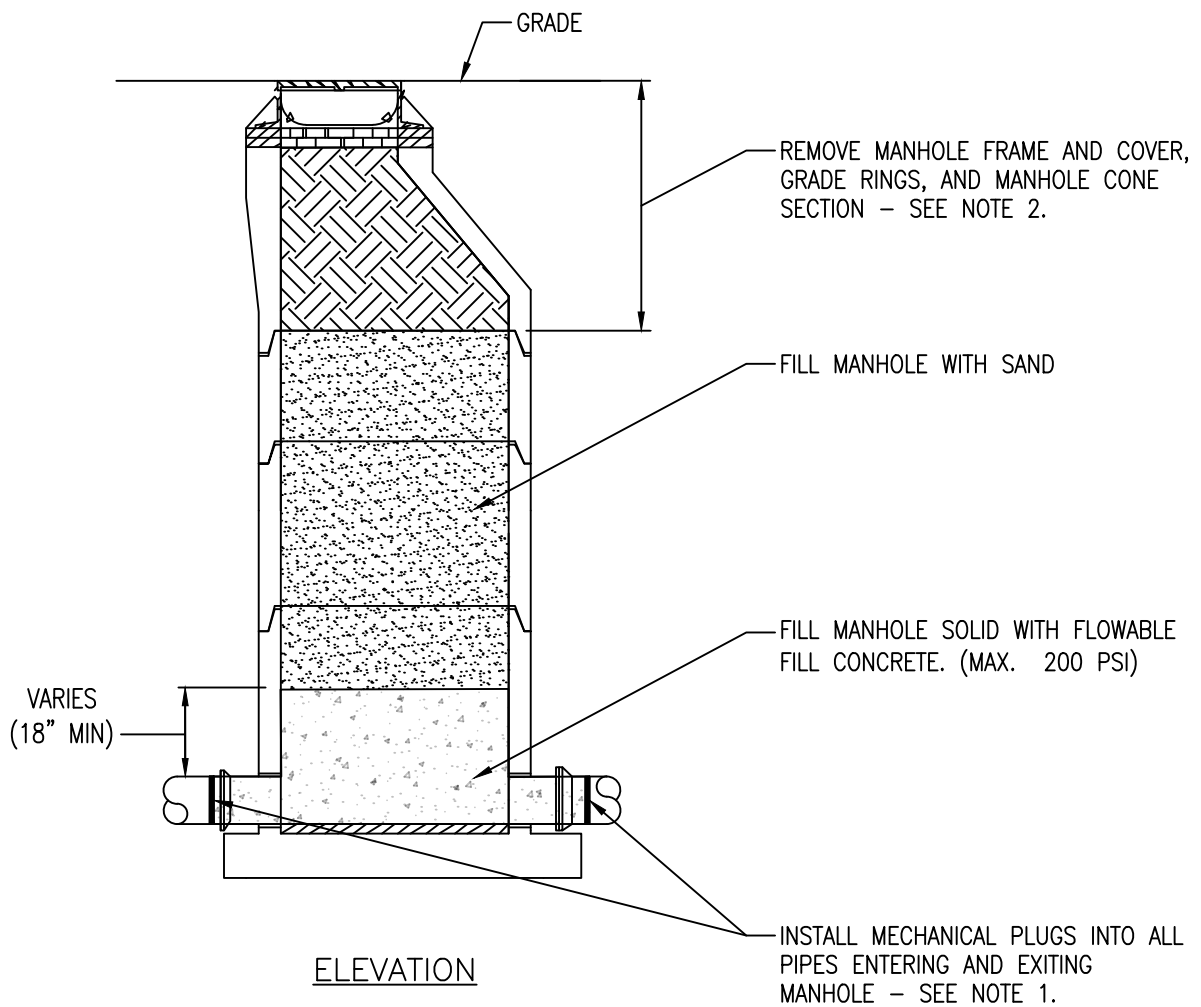
SUSSEX COUNTY
ENGINEERING DEPARTMENT

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SUSSEX COUNTY ENGINEER

MANHOLE FLOW CHANNEL

DETAIL
S-1.10

DATE ISSUED:
12/30/2021



NOTES:

1. FOR SEWERS 18" AND LARGER, PROVIDE MASONRY PLUG IN LIEU OF MECHANICAL PLUG.
2. ADDITIONAL DEPTH OF MANHOLE MAY REQUIRE REMOVAL DEPENDENT ON SITE-SPECIFIC CONDITIONS, AS DIRECTED BY COUNTY.



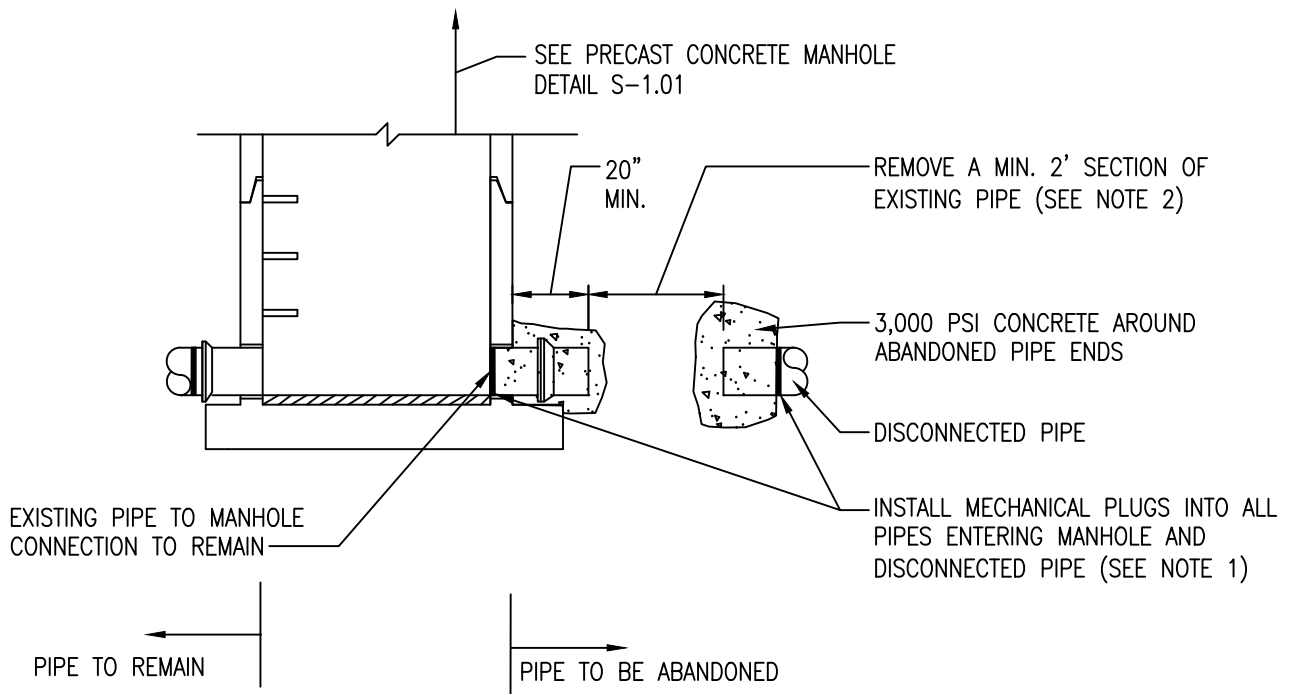
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ENGINEERING DEPARTMENT

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SUSSEX COUNTY ENGINEER

MANHOLE ABANDONMENT

DETAIL
S-1.11

DATE ISSUED:
12/30/2021



NOTES:

1. FOR SEWERS 18" AND LARGER, PROVIDE MASONRY PLUG IN LIEU OF MECHANICAL PLUG.
2. ADDITIONAL PIPE MAY NEED TO BE REMOVED DEPENDING ON LOCATION OF EXISTING PIPE JOINTS.



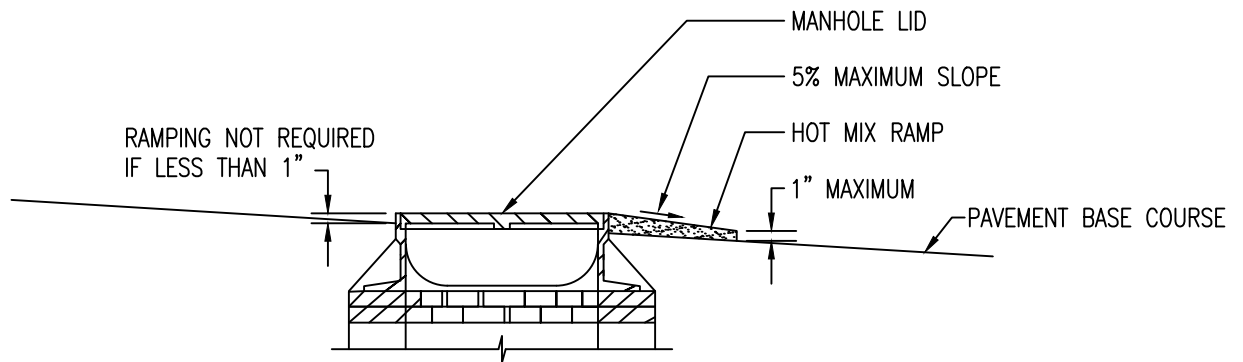
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ENGINEERING DEPARTMENT

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SUSSEX COUNTY ENGINEER

PIPE ABANDONMENT
AT MANHOLE

DETAIL
S-1.12

DATE ISSUED:
12/30/2021



NOTES:

1. HOT-MIX RAMPING SHALL BE INSTALLED AROUND ALL MANHOLES, VALVES, AND CLEANOUTS WITHIN PAVED AREA IN ACCORDANCE WITH THESE NOTES AT THE TIME OF HOT-MIX BASE INSTALLATION.
2. MAXIMUM EXPOSURE OF CASTING PRIOR TO RAMPING SHALL NOT EXCEED 3 INCHES. THIS MAY REQUIRE MULTIPLE HEIGHT ADJUSTMENTS OF THE CASTING DURING PAVEMENT INSTALLATION.
3. MAXIMUM SLOPE OF RAMPING SHALL NOT EXCEED 5 PERCENT.
4. RAMPING MATERIAL SHALL BE MAINTAINED/REPAIRED UNTIL FINAL COURSE OF PAVEMENT IS INSTALLED.
5. RAMPING MATERIAL SHALL BE REMOVED JUST PRIOR TO FINAL PAVEMENT COURSE OVERLAY.
6. IF HOT-MIX RAMPING OCCURS ON A DELDOT MAINTAINED ROADWAY, RAMPING REQUIREMENTS MAY BE DIFFERENT THAN THOSE SHOWN ON THIS DETAIL.



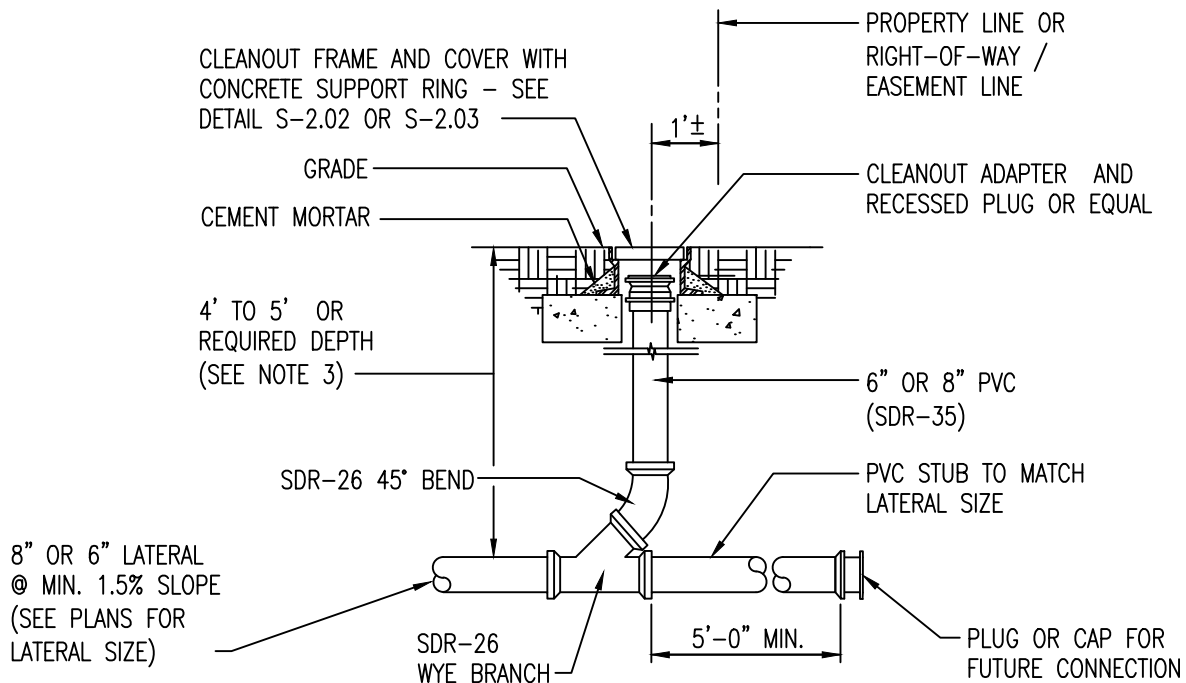
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SUSSEX COUNTY ENGINEER

**HOT-MIX RAMPING
AT MANHOLE**

DETAIL
S-1.13

DATE ISSUED:
12/30/2021



NOTES:

1. CLEANOUT SHALL NOT TO BE LOCATED WITHIN LIMITS OF DITCH, SWALE, ETC.
2. MAINTAIN 10' MIN. SEPARATION BETWEEN SEWER AND WATER LINES.
3. MINIMUM DEPTH OF SEWER LATERAL AT ANY POINT INCLUDING UNDER DITCHES, SWALES, ETC. SHALL BE 30 INCHES. NOMINAL DEPTH SHALL BE AS NOTED ABOVE.
4. SIZE OF PVC LATERAL STUB TO MATCH LATERAL SIZE.
5. PROVIDE BETWEEN 3" AND 6" OF CLEARANCE BETWEEN CLEANOUT COVER AND CLEANOUT TOP.
6. ALL CLEANOUT DEPTHS LABELED AS CRITICAL DEPTH LATERALS SHALL BE INSTALLED PER CONFIGURATION ON DETAIL S-2.05.
7. METALLIC DETECTABLE REINFORCED UNDERGROUND MARKING TAPE TO BE PLACED WITHIN ENTIRE LIMITS OF SEWER LATERAL TRENCH – REFER TO DETAIL S-3.01 FOR CONFIGURATION.



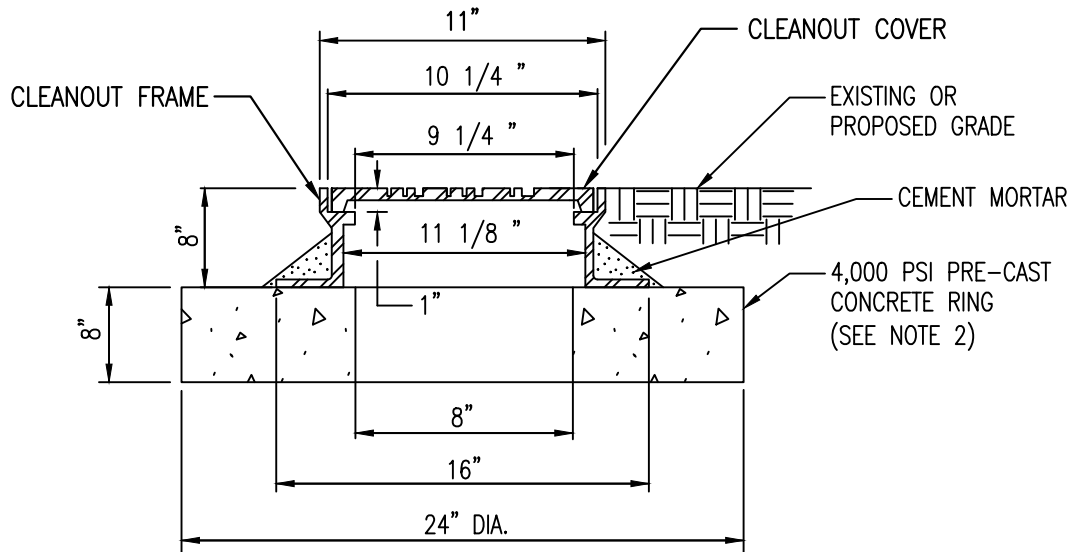
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ENGINEERING DEPARTMENT

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SUSSEX COUNTY ENGINEER

**SEWER LATERAL
CLEANOUT**

DETAIL
S-2.01

LAST REVISED:
10/11/2023



FRAME AND COVER SECTION

NOTES:

1. FRAME AND COVER ASSEMBLY SHALL BE CENTERED OVER CLEANOUT RISER.
2. HDPE COMPOSITE SUPPORT RING BASE MAY BE SUBSTITUTED FOR CONCRETE RING IN NON-TRAFFIC AREA. HDPE SUPPORT RING IS NOT PERMITTED IN TRAFFIC BEARING AREA.
3. CLEANOUT FRAME AND COVER SHALL BE INSTALLED BY UTILITY CONTRACTOR PRIOR TO SUBSTANTIAL COMPLETION INSPECTION FOR DEVELOPMENT PROJECTS.
4. MATERIAL FOR FRAME AND COVER SHALL BE HEAVY DUTY GRAY IRON CL35B MEETING THE REQUIREMENTS OF ASTM A48.
5. CLEANOUT COVER SHALL HAVE A RAISED DIAMOND PATTERN WITH A 2" MIN. RAISED "S" IMPRINTED IN SHARP FACE GOTHIC AT CENTER OF COVER. A SINGLE 1" MIN. WIDE PICKHOLE SHALL BE PROVIDED AT EDGE.
6. SEWER CLEANOUT COVERS LOCATED WITHIN A PEDESTRIAN WALKWAY MUST BE ADA COMPLIANT.
7. REFER TO CURRENT DELDOT REQUIREMENTS FOR INSTALLATIONS WITHIN DELDOT RIGHT-OF-WAY.



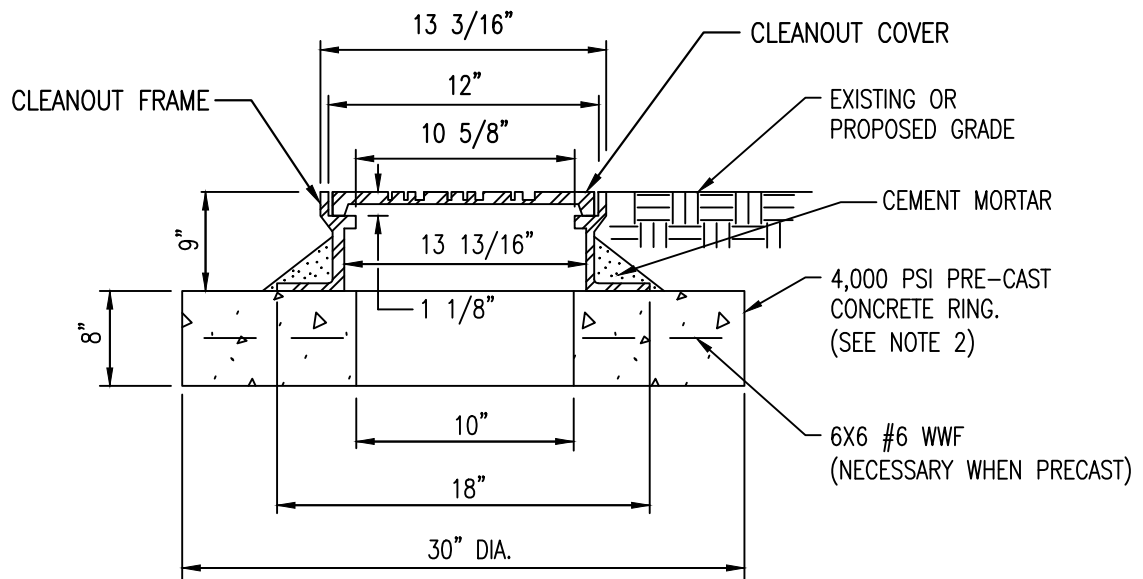
SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: 
SUSSEX COUNTY ENGINEER

6" SEWER LATERAL CLEANOUT
FRAME AND COVER

DETAIL
S-2.02

DATE ISSUED:
5/31/2022



FRAME AND COVER SECTION

NOTES:

1. FRAME AND COVER ASSEMBLY SHALL BE CENTERED OVER THE CLEANOUT RISER.
2. HDPE COMPOSITE SUPPORT RING BASE MAY BE SUBSTITUTED FOR CONCRETE RING IN NON-TRAFFIC AREA. HDPE SUPPORT RING IS NOT PERMITTED IN TRAFFIC BEARING AREA.
3. CLEANOUT FRAME AND COVER SHALL BE INSTALLED BY UTILITY CONTRACTOR PRIOR TO SUBSTANTIAL COMPLETION INSPECTION FOR DEVELOPMENT PROJECTS.
4. MATERIAL FOR FRAME AND COVER SHALL BE HEAVY DUTY GRAY IRON CL35B MEETING THE REQUIREMENTS OF ASTM A48.
5. CLEANOUT COVER SHALL HAVE A RAISED DIAMOND PATTERN WITH A 2" MIN. RAISED "S" IMPRINTED IN SHARP FACE GOTHIC AT CENTER OF COVER. A SINGLE 1" MIN. WIDE PICKHOLE SHALL BE PROVIDED AT EDGE.
6. SEWER CLEANOUT COVERS LOCATED WITHIN A PEDESTRIAN WALKWAY MUST BE ADA COMPLIANT.
7. REFER TO CURRENT DELDOT REQUIREMENTS FOR INSTALLATIONS WITHIN DELDOT RIGHT-OF-WAY.



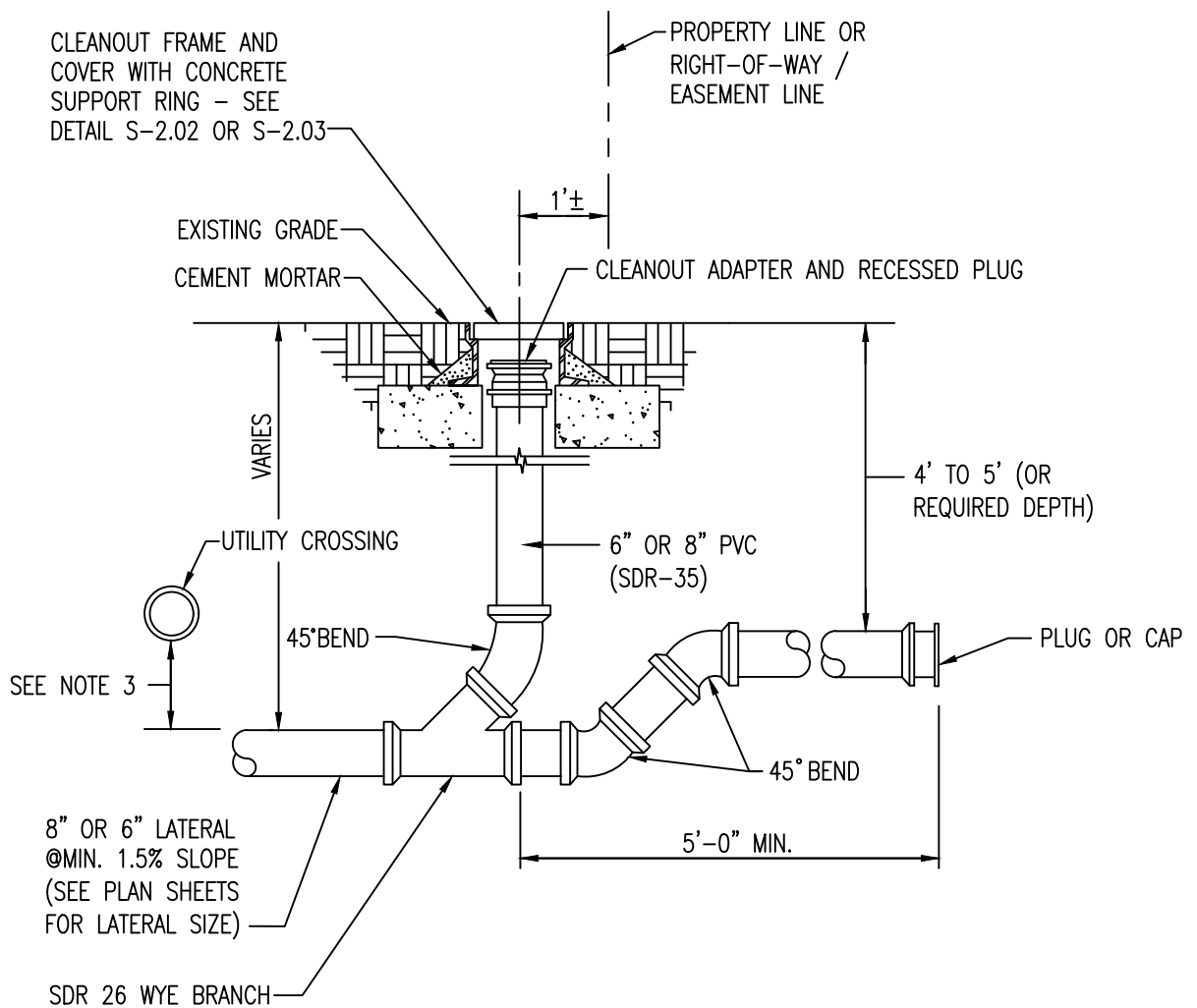
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SUSSEX COUNTY ENGINEER

8" SEWER LATERAL CLEANOUT
FRAME AND COVER

DETAIL
S-2.03

DATE ISSUED:
5/31/2022



NOTES:

1. DEEP LATERAL CLEANOUT DETAIL APPLIES TO BOTH 6" AND 8" LATERALS.
2. A MINIMUM OF 3" CLEARANCE SHALL BE PROVIDED BETWEEN CLEANOUT COVER AND CLEANOUT TOP.
3. MINIMUM CLEARANCE IS 18" TO WATER MAIN, AND 12" TO ALL OTHER UTILITIES.



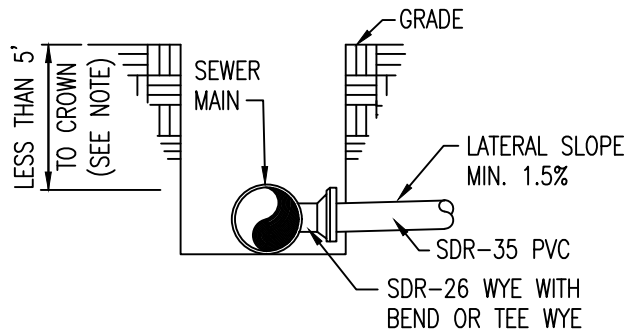
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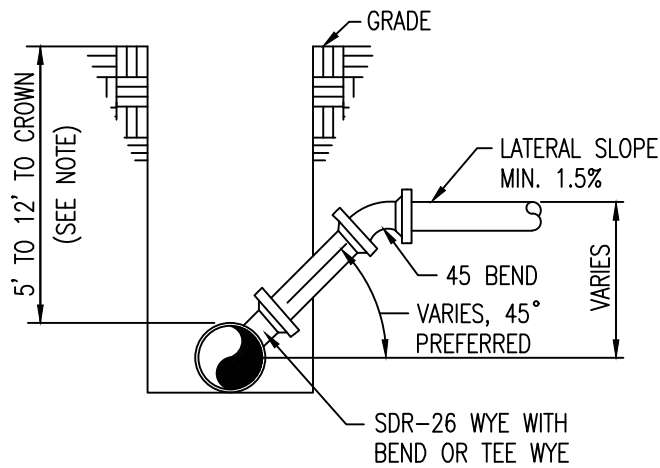
**DEEP SEWER LATERAL
CLEANOUT**

DETAIL
S-2.04

DATE ISSUED:
12/30/2021



SHALLOW CONFIGURATION



DEEP CONFIGURATION

NOTE:
 LATERALS SHOWN ON THE PLANS AS CRITICAL DEPTH LATERALS WILL
 BE INSTALLED IN THE SAME FASHION AS SHALLOW LATERALS
 REGARDLESS OF THE TRENCH DEPTH. FOR MAINS GREATER THAN 12'
 TO CROWN SEE RISER DETAIL S-2.06.



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SEWER LATERAL CONNECTIONS

DETAIL
 S-2.05

DATE ISSUED:
 10/5/2022

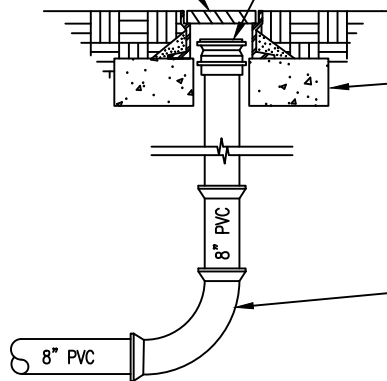
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10/5/2022

8" CLEANOUT FRAME,
COVER, AND RING—
SEE DETAIL S-2.03

CLEANOUT ADAPTER AND
RECESSED PLUG

SEE DETAIL S-2.03
FOR CLEANOUT RING.

SDR-26 90° SWEEP BEND
(SEE NOTE 2)



NOTES:

1. PROVIDE BETWEEN 3" AND 6" OF CLEARANCE BETWEEN CLEANOUT COVER AND CLEANOUT TOP.
2. STONE BEDDING SHALL BE PLACED AROUND 90° BEND PER DETAIL S-2.09 FOR ALL DEPTHS.
3. SEE DETAIL S-1.01 FOR CONCRETE COLLAR REQUIREMENTS.



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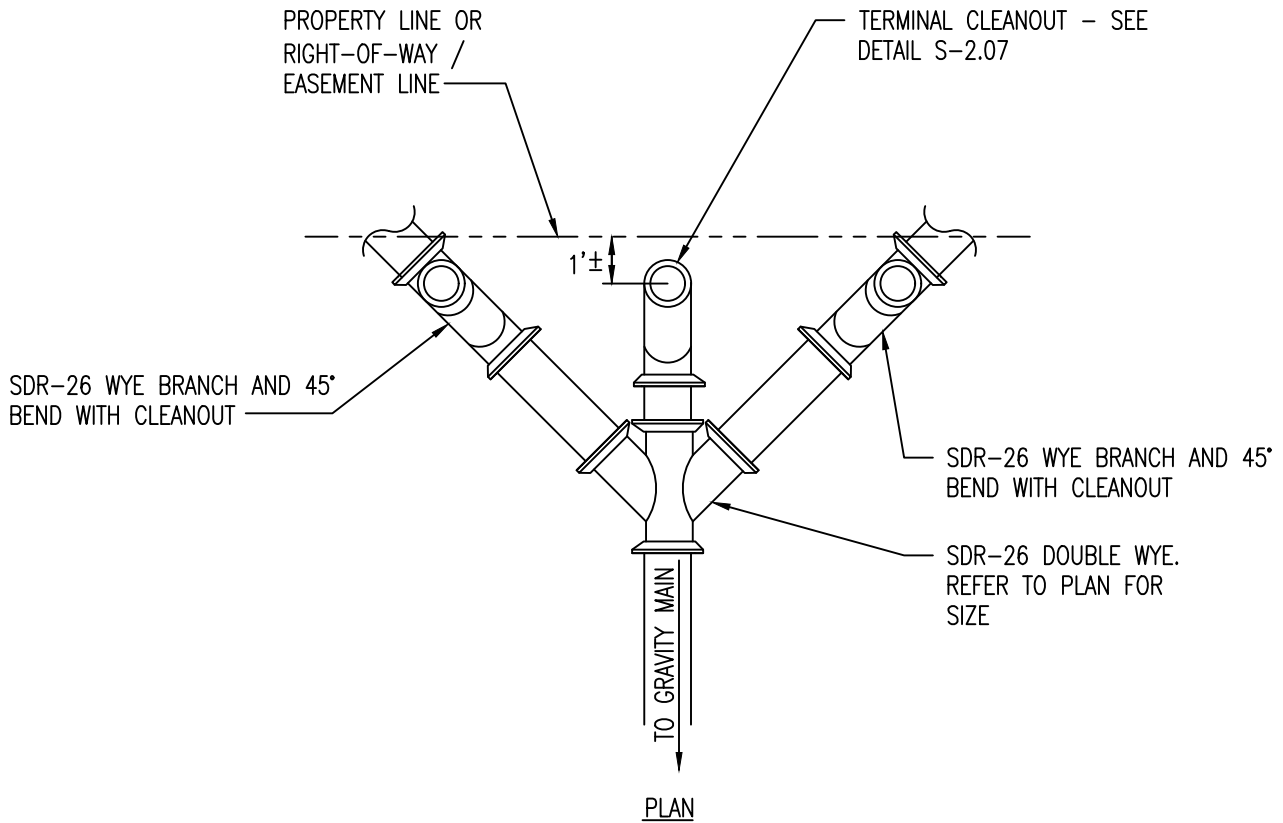
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SEWER TERMINAL
CLEANOUT

DETAIL
S-2.07

DATE ISSUED:
12/30/2021



NOTES:

1. REFER TO APPROPRIATE SEWER CLEANOUT DETAILS FOR STANDARD CONFIGURATIONS.
2. REFER TO PLAN FOR LATERAL AND CLEANOUT SIZE.



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DUAL WYE SEWER
CLEANOUT

DETAIL
S-2.08

DATE ISSUED:
12/30/2021

8" CLEANOUT FRAME, COVER,
AND RING, SEE DETAIL S-2.03

CLEANOUT ADAPTER AND
RECESSED PLUG

8" PVC (SDR-35)

8" MIN. #57 STONE
ALL AROUND FITTING

PLUG OR CAP 8"
GRAVITY STUB FOR
FUTURE EXTENSION

SEE PLANS FOR
SIZE AND MATERIAL
OF GRAVITY MAIN

SDR 26 TEE OR
TEE-WYE BRANCH

NOTES:

1. PROVIDE BETWEEN 3" AND 6" OF CLEARANCE BETWEEN CLEANOUT COVER AND CLEANOUT TOP.
2. ALL INVERTS OF TEE-WYE CONNECTIONS SHALL BE FIELD SURVEYED FOR FINAL AS-BUILTS.
3. TEE INSPECTION PORT SHALL BE REMOVED AT THE TIME OF EXTENSION OF GRAVITY SEWER SYSTEM.



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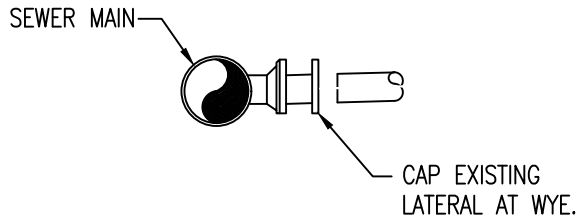
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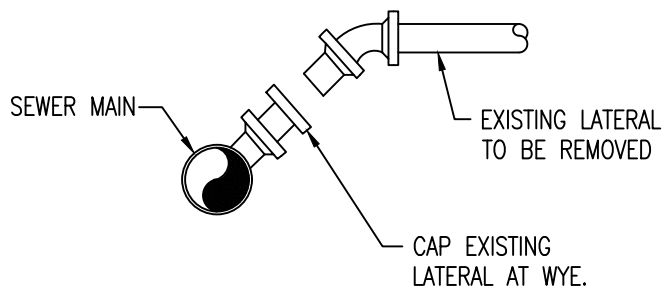
TEE INSPECTION PORT
FOR FUTURE SEWER
EXTENSIONS

DETAIL
S-2.09

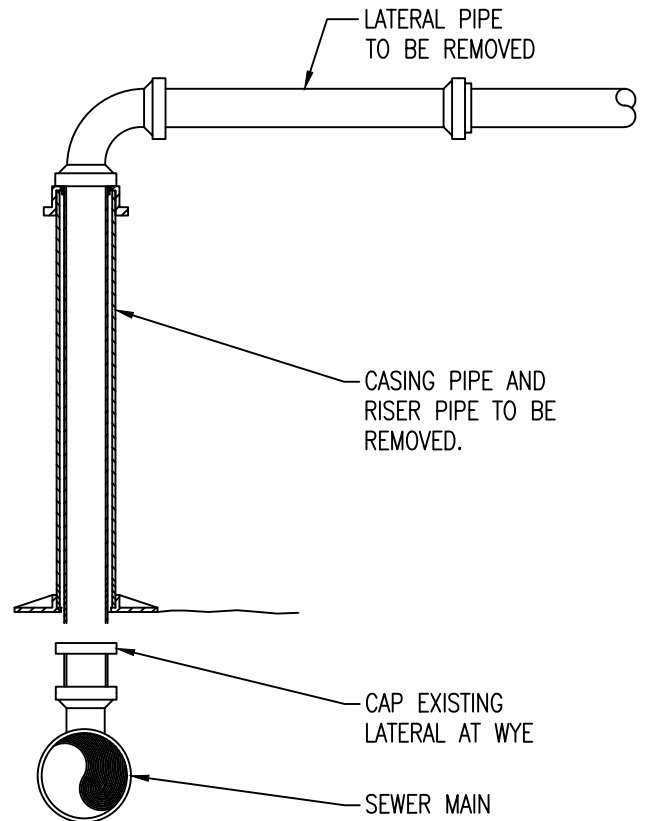
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SHALLOW CONFIGURATION



DEEP CONFIGURATION



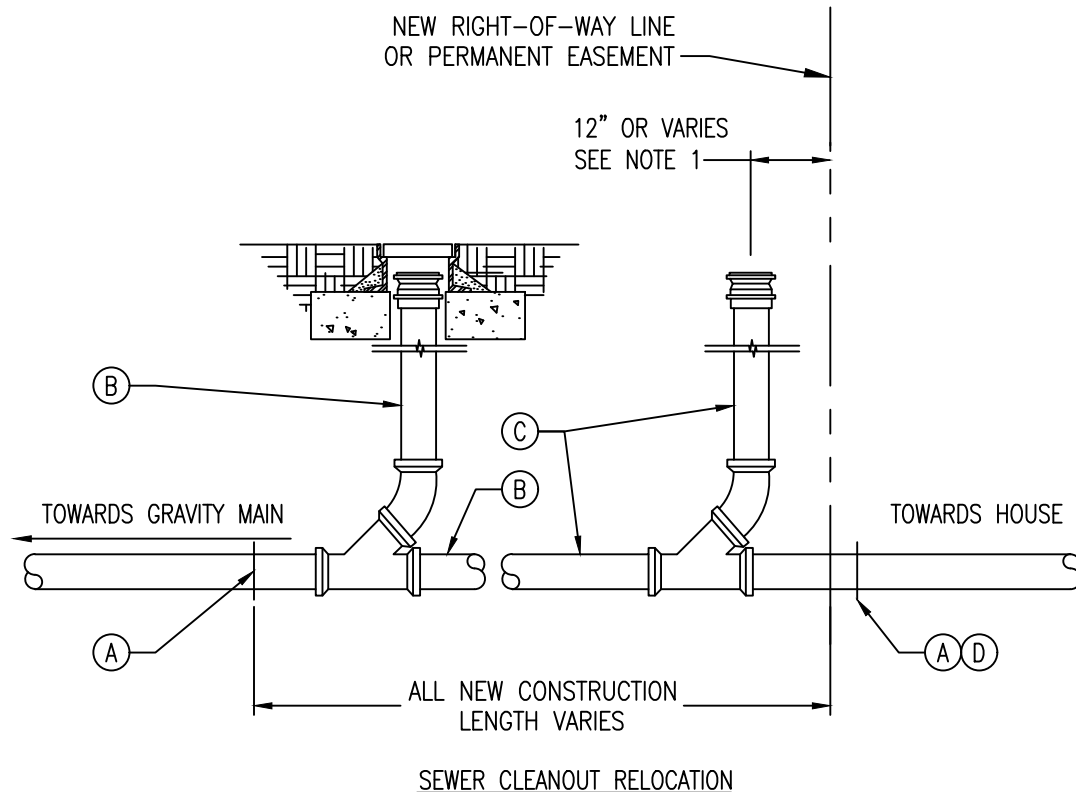
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SUSSEX COUNTY ENGINEER

SEWER LATERAL CAPPING

DETAIL
S-2.10

DATE ISSUED:
12/30/2021



WORK SCOPE

- (A) CLEANLY CUT EXISTING LATERAL ON ROAD SIDE OF EXISTING CLEANOUT AND AT NEW TIE-IN LOCATION.
- (B) REMOVE VERTICAL CLEANOUT APPURTENANCES AND SECTION OF EXISTING SEWER LATERAL UP TO NEW TIE-IN LOCATION.
- (C) INSTALL NEW SECTION OF SEWER LATERAL INCLUDING NEW CLEANOUT, WYE, BEND AND RELATED APPURTENANCES. (SEE GENERAL NOTE 2)
- (D) TIE-IN TO EXISTING HOUSE SIDE SEWER LATERAL USING AN APPROPRIATE COUPLING CONNECTION OR REPAIR SLEEVE AS NEEDED.

NOTES:

- 1. LOCATION OF NEW CLEANOUT SHALL BE AS NOTED ON THE PLANS OR IN THE UTILITY STATEMENT, OR AS DIRECTED BY THE SUSSEX COUNTY INSPECTOR.
- 2. SLOPE OF NEW SECTION OF SEWER LATERAL SHALL MATCH EXISTING UNLESS DIRECTED OTHERWISE BY THE SUSSEX COUNTY INSPECTOR.
- 3. REMOVAL AND/OR TIE-IN LOCATIONS SHALL BE A MINIMUM OF 2 FEET FROM EXISTING PIPE JOINTS.
- 4. WORK SHALL BE SCHEDULED AND PERFORMED IN A MANNER TO MINIMIZE SEWER SERVICE DISRUPTION.
- 5. REFER TO SUSSEX COUNTY DETAIL S-2.01 FOR NEW SEWER LATERAL CLEANOUT.

GENERAL NOTES:

- 1. THIS DETAIL APPLIES TO REQUIRED HORIZONTAL RELOCATION OF A SEWER CLEANOUT DUE TO CONFLICT WITH ROADWAY OR OTHER SITE CONSTRUCTION ACTIVITIES.
- 2. NEW MATERIALS PROPOSED TO BE USED FOR LATERAL EXTENSION SHALL BE SUBJECT TO COUNTY REVIEW AND APPROVAL. "FERNCO" TYPE ADAPTORS AND COUPLINGS ARE NOT PERMITTED.



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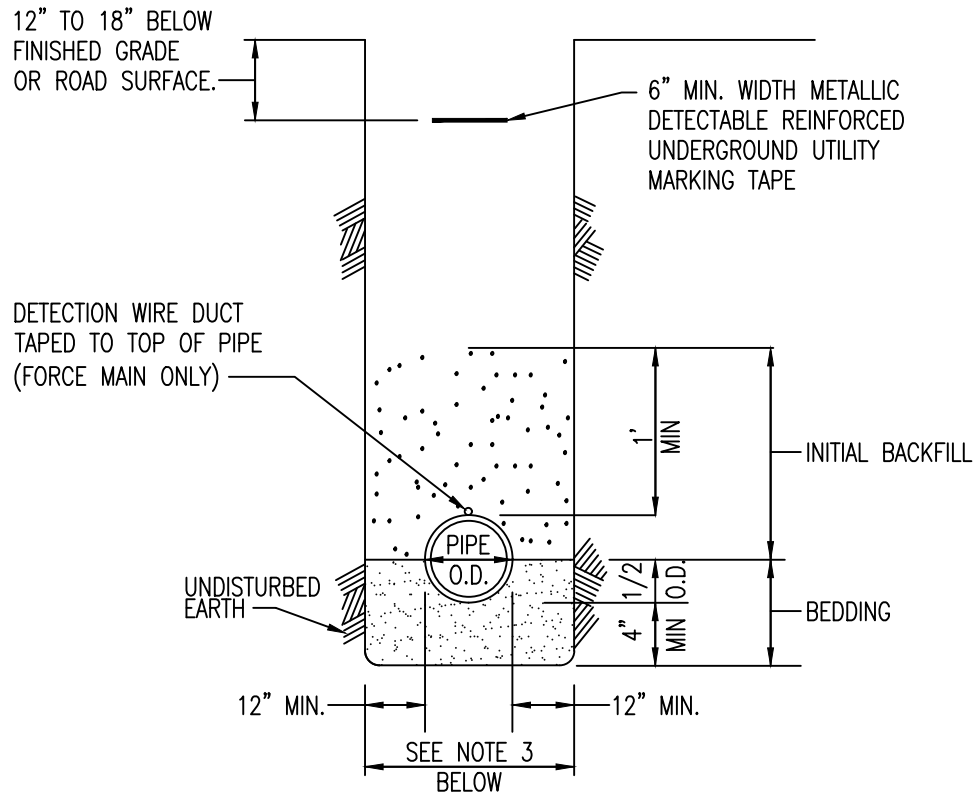
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SUSSEX COUNTY ENGINEER

SEWER LATERAL CLEANOUT RELOCATION

DETAIL
S-2.11

LAST REVISED:
10/11/2023



NOTES:

1. THIS DETAIL APPLIES TO BOTH GRAVITY AND FORCE MAIN SEWER INSTALLATIONS.
2. #57 STONE IS REQUIRED FOR BEDDING MATERIAL AND INITIAL BACKFILL TO 12" ABOVE THE PIPE CROWN FOR ALL SEWER INSTALLATIONS 12' DEEP AND GREATER. FOR INSTALLATIONS LESS THAN 12' DEEP, INITIAL BACKFILL MATERIAL REQUIREMENTS MAY BE MODIFIED BASED ON FIELD CONDITIONS, AS APPROVED BY THE COUNTY. ABOVE INITIAL BACKFILL, MATERIAL MEETING THE REQUIREMENTS OF TYPE F BORROW PER DELDOT'S SPECIFICATIONS SHALL BE USED.
3. FOR INSTALLATION WITHIN LIMITS OF DELDOT ROADWAY AND/OR RIGHT-OF-WAY, TRENCH CONFIGURATIONS AND BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH CURRENT DELDOT REQUIREMENTS.



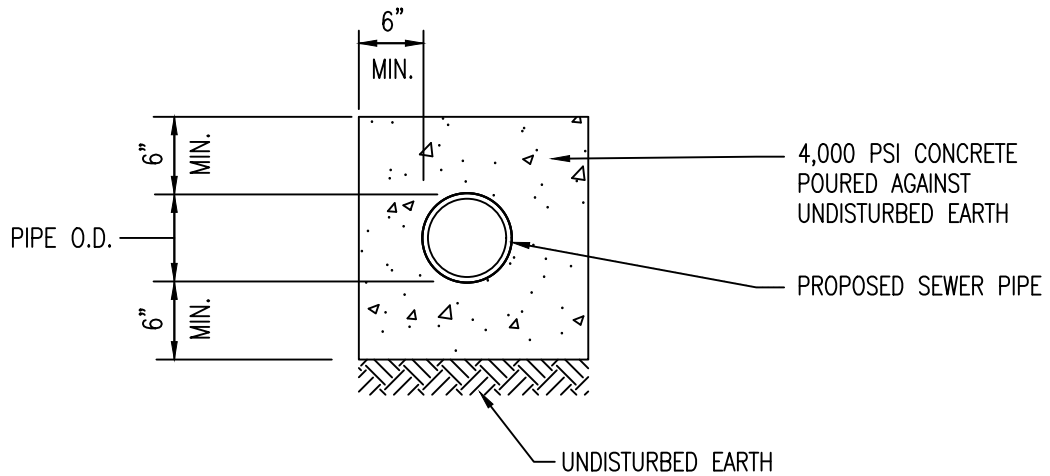
SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

SEWER TRENCH

DETAIL
S-3.01

DATE ISSUED:
12/30/2021



NOTES:

1. SEWER ENCASEMENT AT UTILITY CROSSING SHALL BE AT LOCATIONS SHOWN ON DESIGN PLANS OR REQUIRED BY THE COUNTY. ENCASEMENT SHALL EXTEND A MINIMUM OF FIVE (5) FEET ON EITHER SIDE OF UTILITY CROSSING, EXCEPT AT WATER MAINS.
2. SEWER ENCASEMENT AT WATER MAIN CROSSINGS SHALL BE A MINIMUM OF TEN (10) FEET IN LENGTH OR AS DIRECTED BY THE COUNTY ENGINEER.
3. THE CROSSING SHALL BE ARRANGED SUCH THAT THE SEWER PIPE JOINTS WILL BE EQUAL DISTANCES AND AS FAR AS POSSIBLE FROM JOINTS OF CROSSING UTILITY PIPE.



SUSSEX COUNTY
ENGINEERING DEPARTMENT

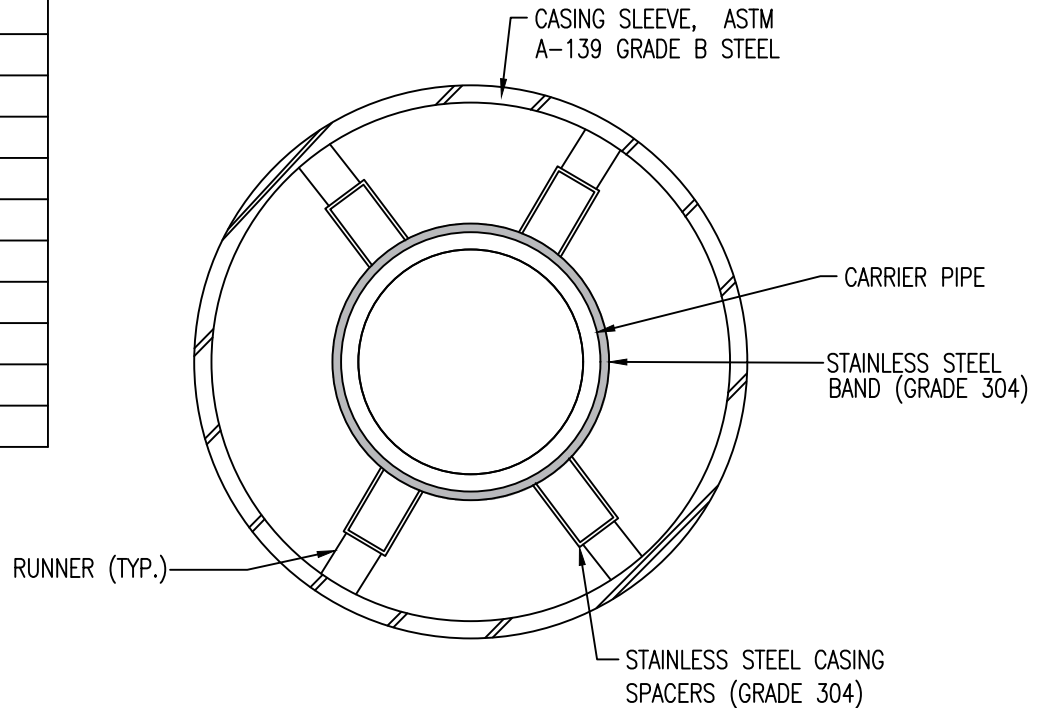
APPROVED: 
SUSSEX COUNTY ENGINEER

SEWER ENCASEMENT

DETAIL
S-3.02

DATE ISSUED:
12/30/2021

CARRIER PIPE (IN.)	MINIMUM O.D. CASING PIPE (IN.)
4	10
6	12
8	16
10	18
12	20
14	24
15	26
16	30
18	32
20	34
21	36
24	36
30	42



NOTES:

1. DETAIL APPLIES TO BOTH JACK AND BORE AND OPEN CUT INSTALLATIONS.
2. END SEAL SHALL BE INSTALLED ON EACH END OF CASING PIPE.
3. CASING SPACERS SHALL BE INSTALLED 1' (MAX.) FROM EACH SIDE OF ANY CARRIER PIPE JOINT, AND A MINIMUM OF 6' ON CENTER ALONG THE CARRIER PIPE IN BETWEEN JOINTS.
4. PREFERRED CONFIGURATION IS WITH CARRIER PIPE CENTERED WITHIN CASING PIPE. OFF-CENTERED CONFIGURATION MAY BE UTILIZED DEPENDING ON SITE CONDITIONS AS APPROVED BY THE COUNTY.
5. SEE TABLE ABOVE FOR MINIMUM CASING PIPE SIZE. IF RESTRAINED JOINTS ARE USED, CASING PIPE DIAMETER SHALL BE MODIFIED AS REQUIRED TO ACCOMMODATE THE PIPE RESTRAINTS.



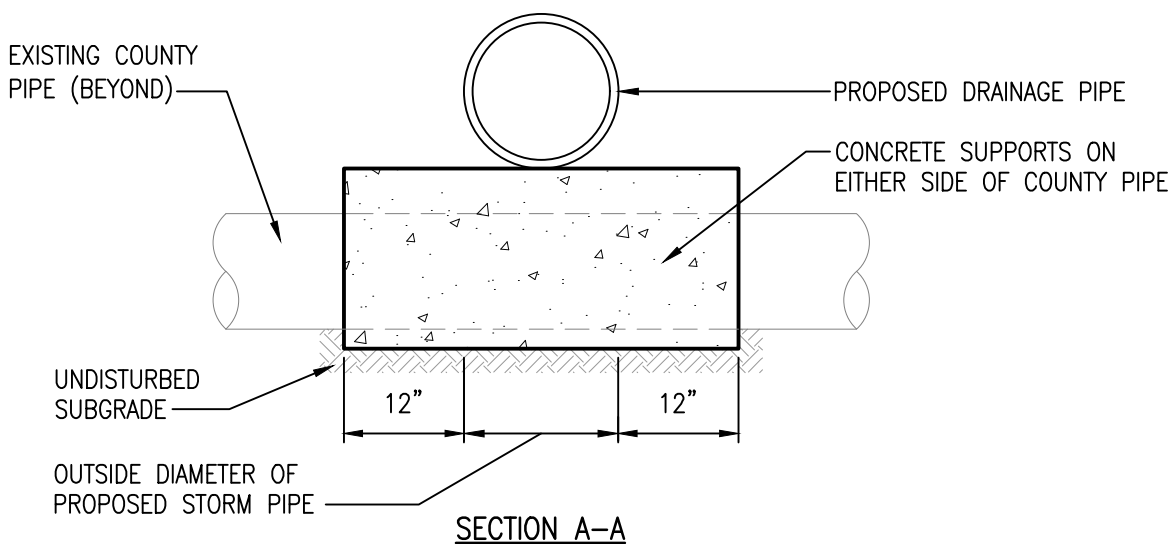
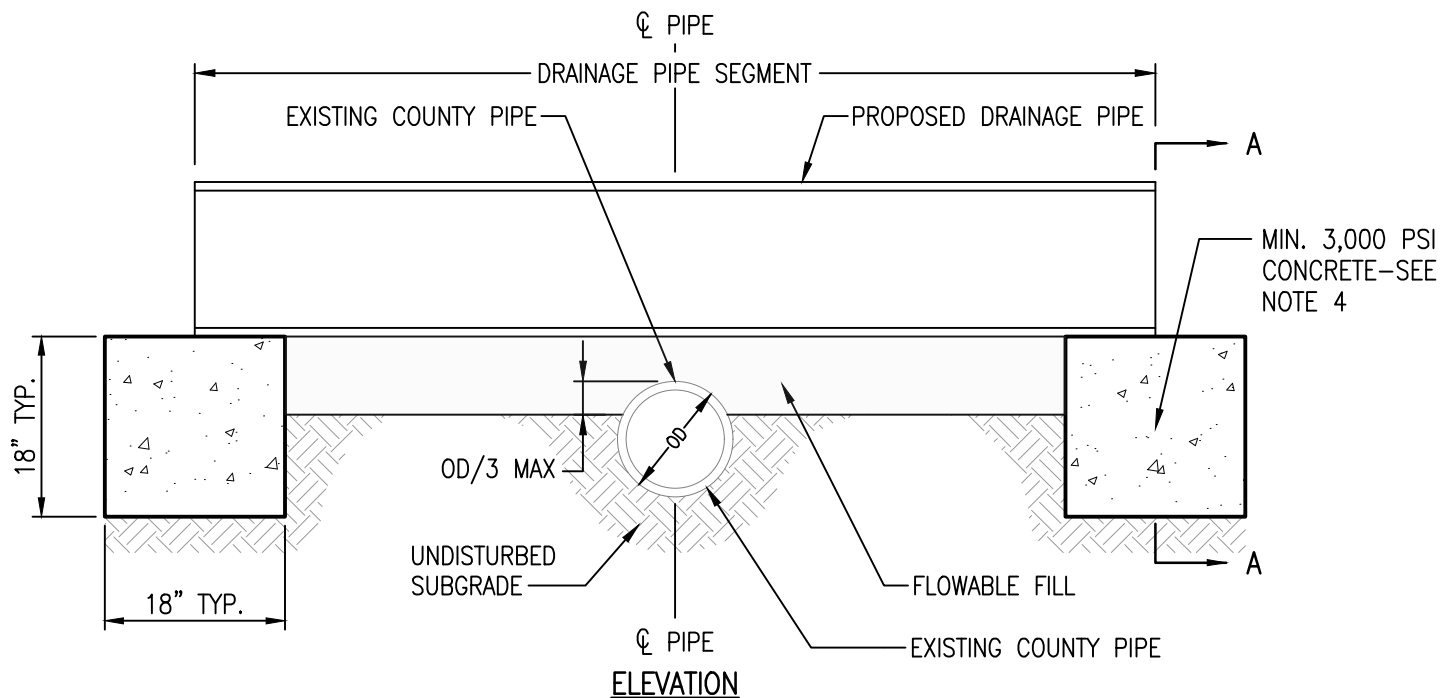
SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: 
SUSSEX COUNTY ENGINEER

**CASING SLEEVE
INSTALLATION**

DETAIL
S-3.03

DATE ISSUED:
12/30/2021



NOTES:

1. DETAIL APPLIES TO CROSSINGS WITH LESS THAN 12" CLEARANCE BETWEEN PROPOSED DRAINAGE PIPE AND EXISTING COUNTY PIPE. FOR CROSSINGS WITH DRAINAGE PIPE BELOW COUNTY PIPE, A SPECIAL PIPE SUPPORT DETAIL MUST BE SUBMITTED TO THE COUNTY FOR APPROVAL. COUNTY PIPE REFER TO SEWER OR WATER PIPE, AS APPLICABLE.
2. DRAINAGE PIPE SHALL BE PLACED SUCH THAT CENTERLINE OF PIPE SEGMENT IS WITHIN 12" OF CENTERLINE OF COUNTY PIPE.
3. ALL EXCAVATION IN VICINITY OF COUNTY PIPE SHALL BE ACCOMPLISHED BY HAND EXCAVATION. SUBGRADE BELOW MAX. EXCAVATION LIMITS SHOWN SHALL REMAIN UNDISTURBED.
4. CONCRETE SUPPORTS AT DRAINAGE PIPE JOINTS SHALL BE FORMED AGAINST UNDISTURBED SUBGRADE. FOR NON-CONCRETE DRAINAGE PIPES, SUPPORTS SHALL BE LOCATED 18 INCHES CLEAR ON EITHER SIDE OF COUNTY PIPE.
5. FOLLOWING PLACEMENT OF DRAINAGE PIPE SEGMENT, FLOWABLE FILL SHALL BE APPLIED TO COMPLETELY FILL VOIDS BENEATH PIPE. REFER TO DELDOT OR OTHER THIRD PARTY SPECIFICATIONS FOR FILL REQUIREMENTS ABOVE THIS LEVEL.



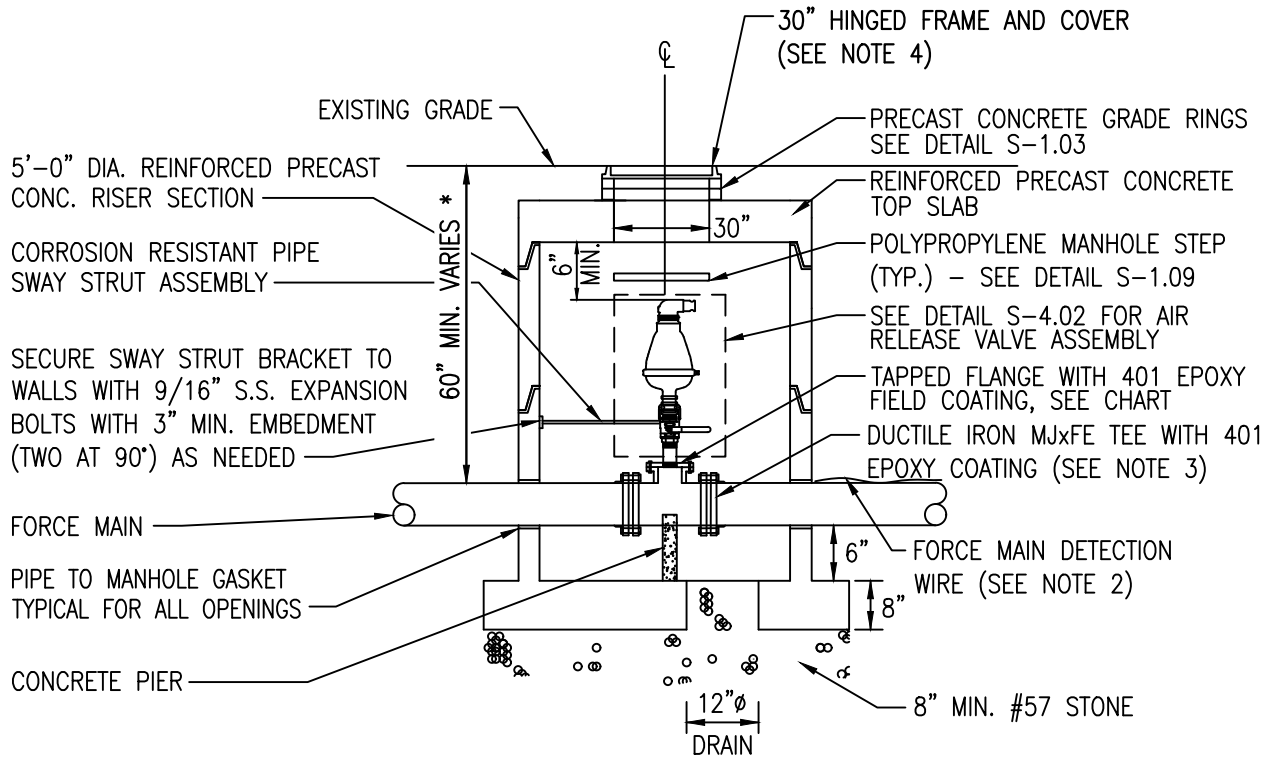
SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

**PIPE CROSSING
PROTECTION**

DETAIL
S-3.04

DATE ISSUED:
06/13/2022



*DEPTH PER PLANS

NOTES:

1. CONCRETE COLLAR NOT SHOWN FOR CLARITY. FOR CONCRETE COLLAR REQUIREMENTS, REFER TO DETAIL S-1.01.
2. ROUTE DETECTION WIRE OUTSIDE OF ARV AND PROVIDE TONING WIRE VALVE BOX ADJACENT TO ARV STRUCTURE. SEE DETAIL S-4.07.
3. DUCTILE IRON FLANGE TEE WILL BE FORCE MAIN SIZE x 4" TEE.
4. HINGED FRAME AND COVER SHALL BE PER EAST JORDAN IRON WORKS PRODUCT NO. 00148064L01, OR APPROVED EQUAL.

FORCE MAIN DIA.	ARV	TAP FLANGE
≤ 16"	2"	4"x2"
> 16"	3"	4"x3"



SUSSEX COUNTY
ENGINEERING DEPARTMENT

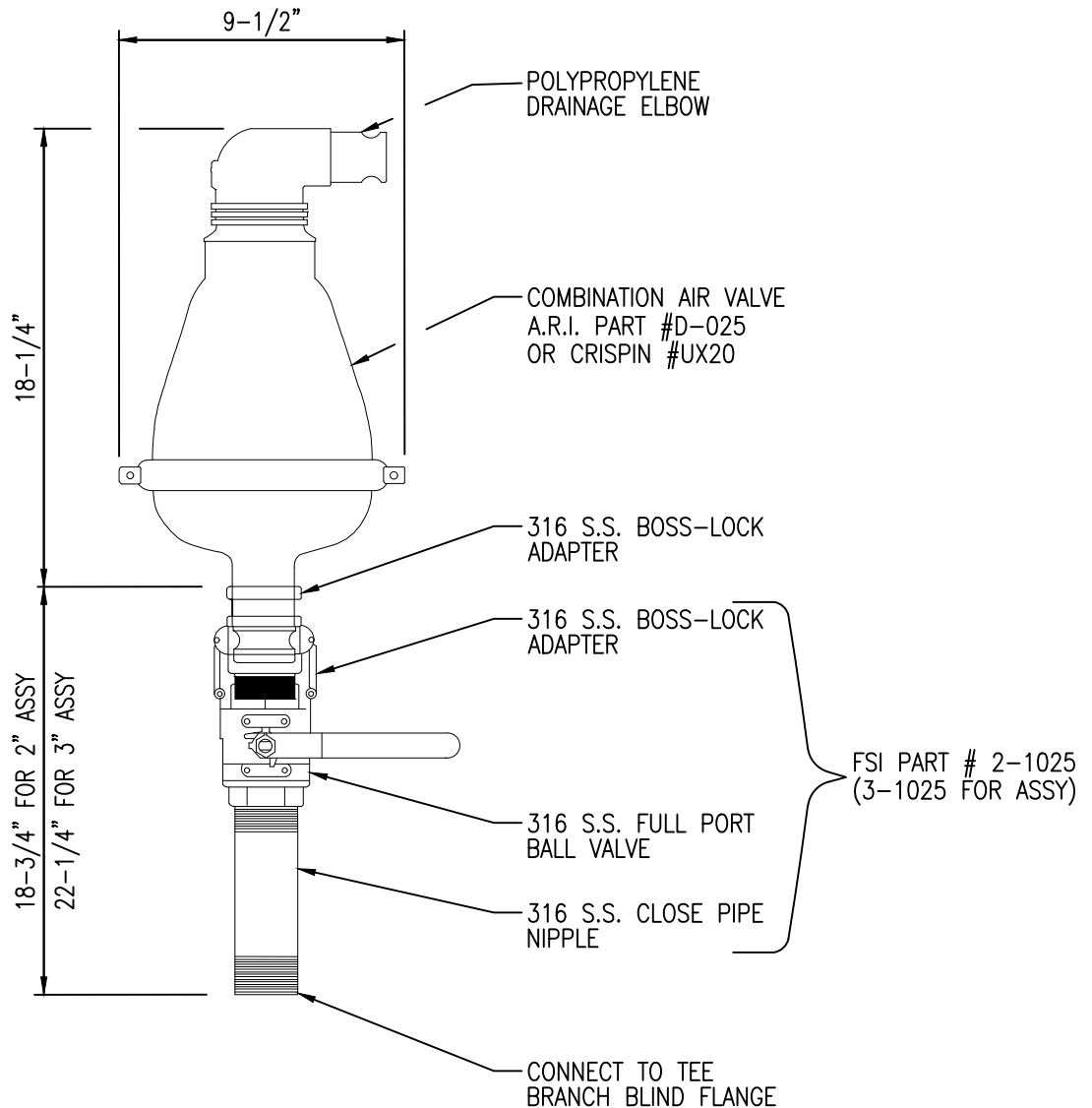
APPROVED: _____

SUSSEX COUNTY ENGINEER

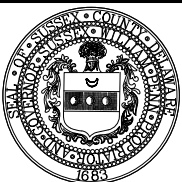
**SEWER FORCE MAIN
AIR RELEASE VALVE**

DETAIL
S-4.01

DATE ISSUED:
05/31/2022



NOTE:
IF AIR RELEASE MANHOLE IS A TIGHT FIT, THE
CRISPIN ARV CAN BE USED PER COUNTY APPROVAL.



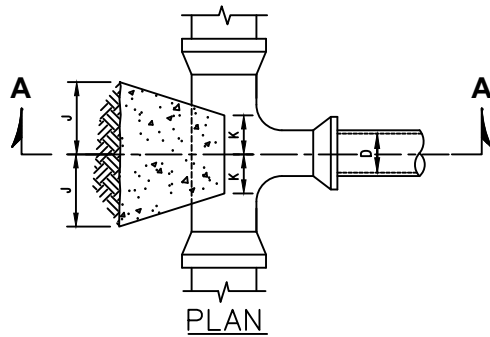
SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

AIR RELEASE VALVE ASSEMBLY

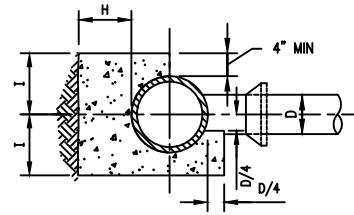
DETAIL
S-4.02

DATE ISSUED:
12/30/2021

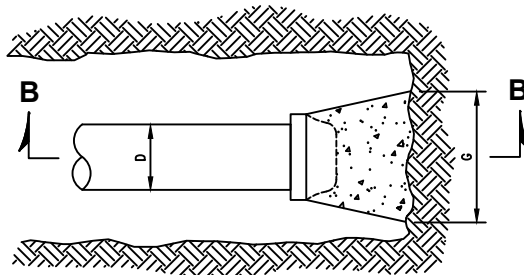


PLAN

TEES

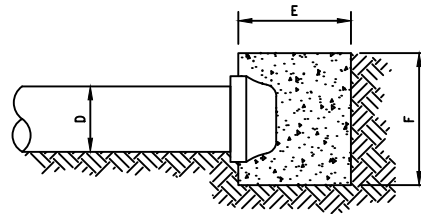


SECTION A-A

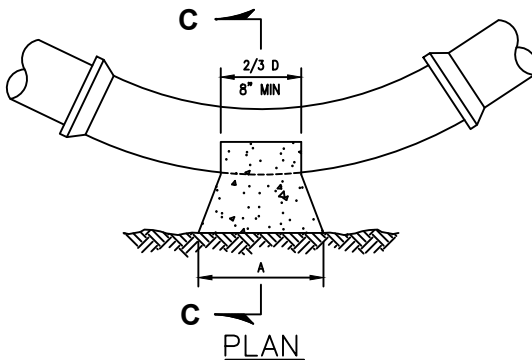


PLAN

PLUGS

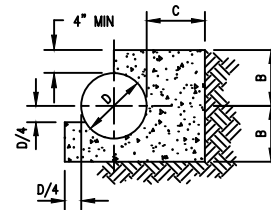


SECTION B-B



PLAN

BENDS



SECTION C-C



SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

CONCRETE BUTTRESS CONFIGURATIONS

DETAIL
S-4.03

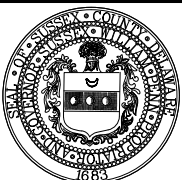
DATE ISSUED:
12/30/2021

		BUTTRESS DIMENSIONS							
CONFIGURATION		PIPE DIAMETER (D) IN INCHES (I.D.)							
		1.5	2	3	4	6	8	10	14
90°									
	A	12	12	15	24	24	30	49	69
	B	3	3	4	6	6	9	13	18
	C	12	18	18	22	22	21	24	24
45°									
	A	6	8	11	15	15	20	37	51
	B	2	4	6	7	7	8	19	26
	C	9	12	12	8	8	9	22	22
22.5°									
	A	4	6	8	9	9	12	26	37
	B	1	3	4	7	7	8	13	19
	C	6	9	9	8	8	9	12	12
11.25°									
	A	3	4	6	6	6	8	19	26
	B	1	2	3	7	7	8	10	13
	C	6	9	9	7	7	7	10.5	10.5
PLUG									
	E	6	9	9	6	6	8	10.5	10.5
	F	7	9	13	12	12	16	42	58
	G	4	5	7	15	17	23	21	29
TEE									
	H	12	18	18	8	8	9	21	21
	I	4	5	7	8	8	10	21	29
	J	2	3	4	7	7	9	11	15
	K	2	2	4	6	6	8	12	14

SEE DETAIL S-4.03 FOR CONFIGURATIONS.

NOTES:

1. ALL CONCRETE TO HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
2. BUTTRESS DIMENSIONS GIVEN ARE MINIMUM DIMENSIONS BASED UPON 3000 PSF MINIMUM SOIL BEARING CAPACITY AND 150 PSI MAXIMUM INTERNAL PIPE PRESSURE. PARAMETERS OUTSIDE OF THESE TOLERANCES WILL REQUIRE A SPECIAL BUTTRESS DESIGN APPROVED BY THE COUNTY.
3. ALL CONCRETE SHALL BE POURED AGAINST UNDISTURBED EARTH.
4. TEE DIMENSIONS IN TABLE SHALL BE USED FOR WYES.



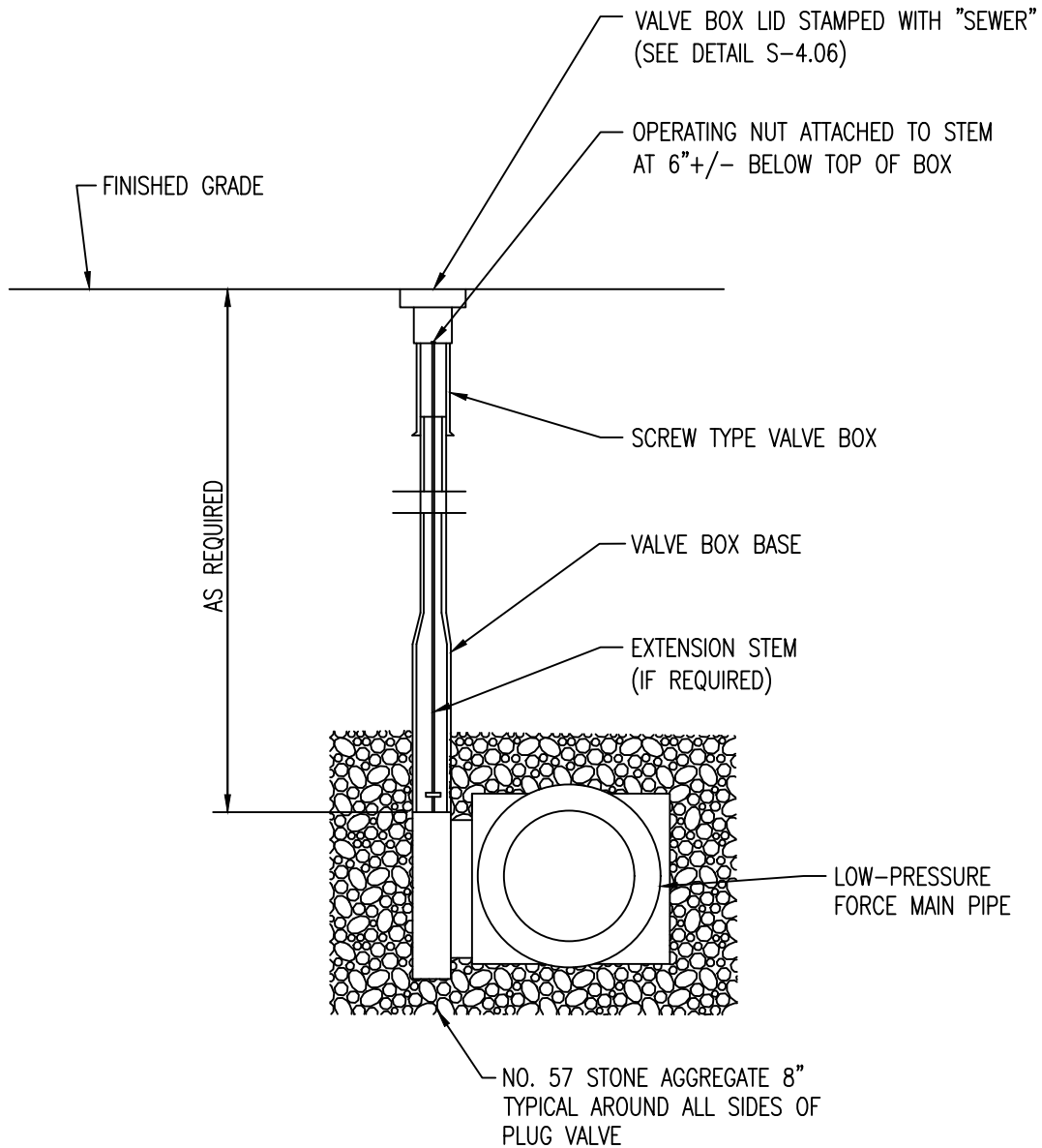
SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: 
SUSSEX COUNTY ENGINEER

**CONCRETE BUTTRESS
DIMENSIONS**

DETAIL
S-4.04

DATE ISSUED:
12/30/2021



NOTES:

1. CONCRETE COLLAR NOT SHOWN FOR CLARITY. REFER TO DETAIL S-4.06 FOR COLLAR REQUIREMENTS.
2. LID MUST BE ADA COMPLIANT IF LOCATED WITHIN A PEDESTRIAN WALKWAY.



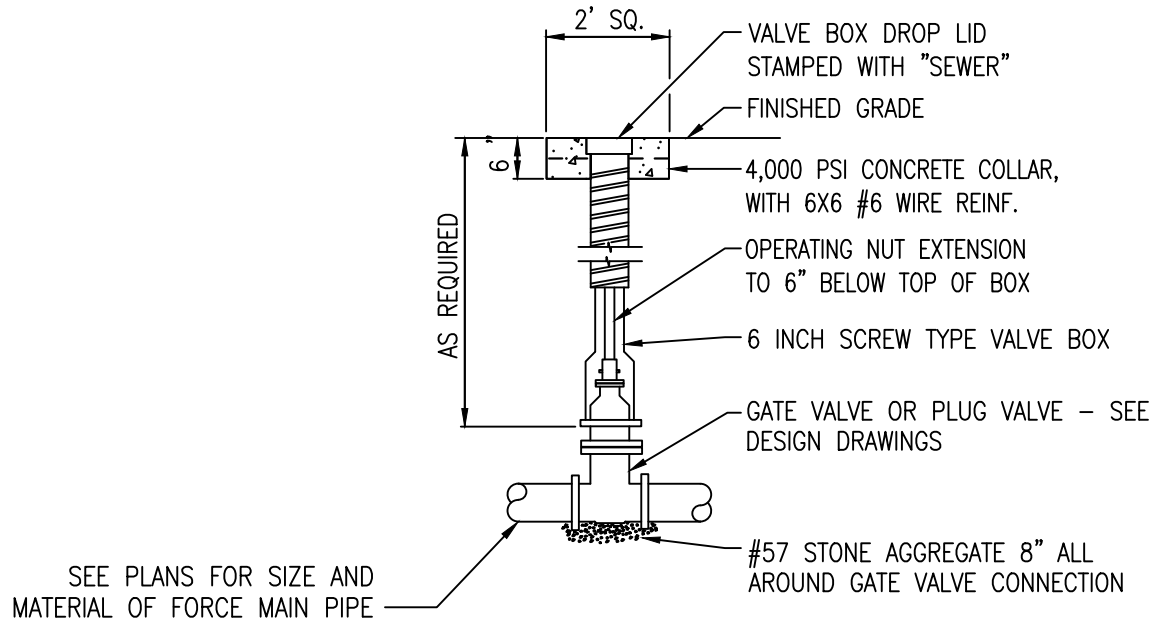
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ENGINEERING DEPARTMENT

APPROVED: 
SUSSEX COUNTY ENGINEER

**SEWER FORCE MAIN
PLUG VALVE**

DETAIL
S-4.05

DATE ISSUED:
12/30/2021



NOTES:

1. IF VALVE IS LOCATED WITHIN PAVEMENT, CONCRETE COLLAR IS NOT REQUIRED. SEE ALSO NOTE 2 ON DETAIL S-1.01.
2. EXTEND TONING WIRE INTO VALVE BOX. SEE DETAIL S-4.07.
3. LID MUST BE ADA COMPLIANT IF LOCATED WITHIN A PEDESTRIAN WALKWAY.



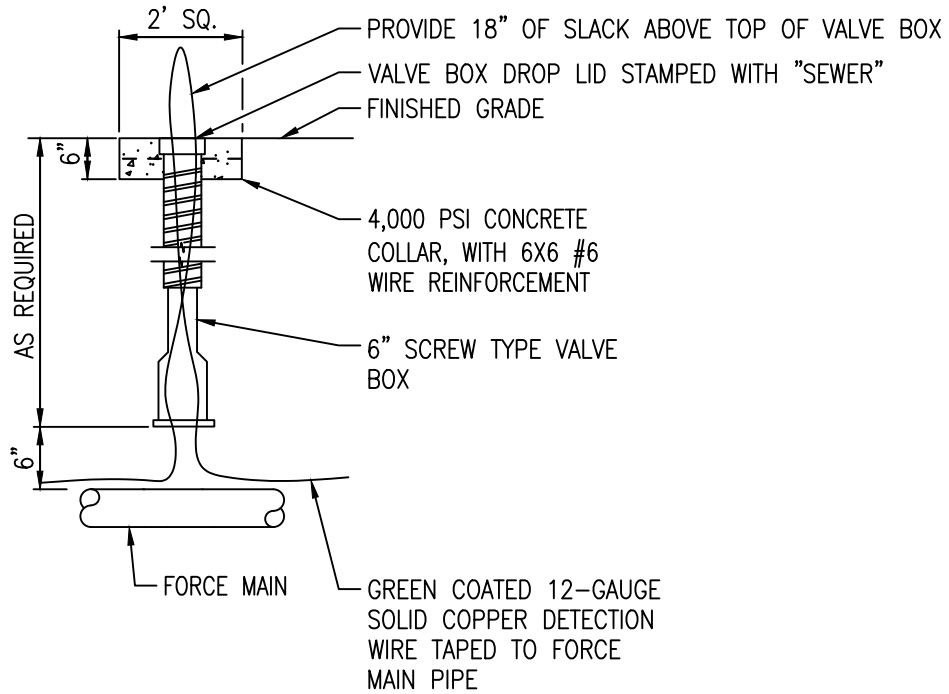
SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

SEWER FORCE MAIN
ISOLATION VALVE

DETAIL
S-4.06

DATE ISSUED:
12/30/2021



NOTES:

1. IF TONING WIRE BOX IS LOCATED WITHIN PAVEMENT, CONCRETE COLLAR IS NOT REQUIRED. SEE ALSO NOTE 2 ON DETAIL S-1.01 REGARDING LOCATION WITHIN DELDOT ROADWAY.
2. LID MUST BE ADA COMPLIANT IF LOCATED WITHIN A PEDESTRIAN WALKWAY.



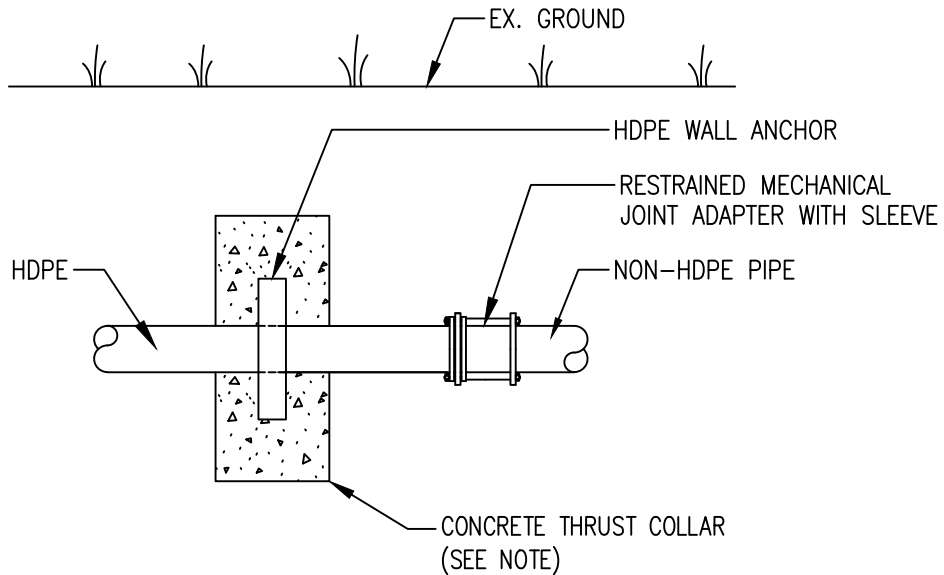
SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

SEWER FORCE MAIN
TONING WIRE BOX

DETAIL
S-4.07

DATE ISSUED:
12/30/2021



ELEVATION

NOTE:

FOR TRANSITIONS BETWEEN HDPE PIPE AND NON-HDPE PIPE, AN APPROPRIATELY DESIGNED CONCRETE THRUST COLLAR AROUND A POLY WALL ANCHOR SHALL BE INCORPORATED TO ACCOUNT FOR THE POISSON EFFECT OF THE HDPE PIPE. AS AN ALTERNATIVE, ADDITIONAL JOINT RESTRAINTS SHALL BE INCORPORATED OUTSIDE THE LIMITS OF HDPE PIPING, AS APPROVED BY THE COUNTY.



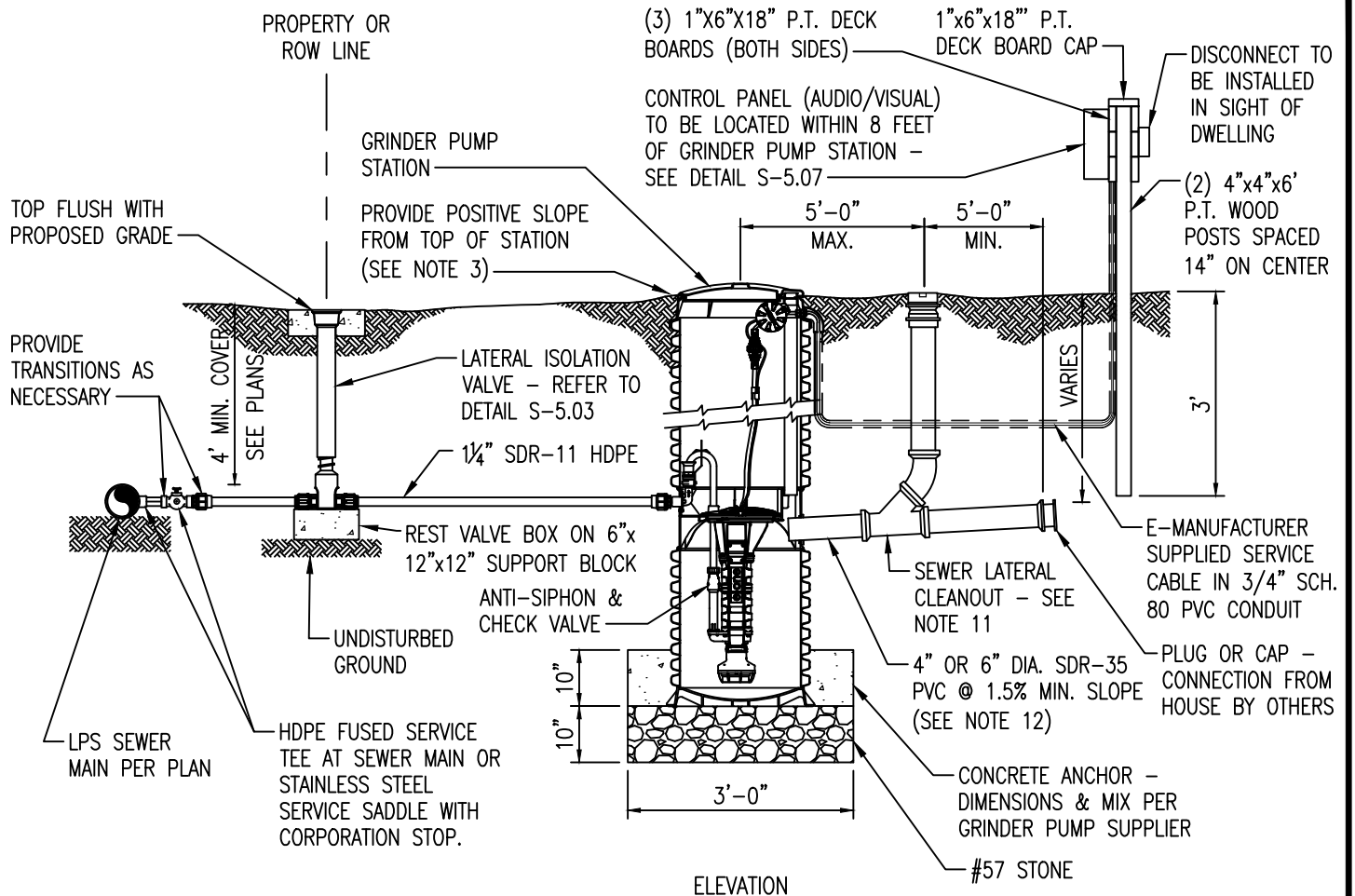
SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

TRANSITION FROM HDPE
TO NON-HDPE PIPE

DETAIL
S-4.08

DATE ISSUED:
12/30/2021



NOTES

1. THE SEWER CONTRACTOR SHALL PROVIDE AND INSTALL ALL ITEMS AS INDICATED. REFER TO CURRENT COUNTY GRINDER PUMP CONNECTION PROCEDURES FOR OVERALL SEQUENCE OF INSTALLATION, OR AS SPECIFIED IN PLANS AND/OR SPECIFICATIONS.
2. SEWER LATERAL CONNECTION FROM THE HOUSE TO THE PVC STUB SHALL BE THE RESPONSIBILITY OF THE HOMEOWNER/PRIVATE PLUMBER.
3. THE CONTRACTOR SHALL GRADE AS REQUIRED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BASIN TOP. ALL FINISHED GRADES AROUND THE BASIN SHALL BE 1-3 IN. BELOW REMOVABLE BASIN LID. MOUNDING OF SOIL AROUND THE BASIN IS NOT PERMITTED.
4. ALL VENTS IN GRINDER PUMP ENCLOSURE COVER SHALL BE COVERED WITH GORTEX VENT COVER.
5. CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE TEMPORARY POWER AND WATER TO CONDUCT PUMP TEST ON SITE FOLLOWING INSTALLATION OF GRINDER PUMP STATION AND ALL HOOK-UPS TO THE FORCE MAIN HAVE BEEN COMPLETED.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF CONTROL PANEL, POWER DISCONNECT, PUMP CABLING, DISCONNECT SWITCH, AND ALL RELATED INCIDENTALS PER THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE. CONTRACTOR IS NOT RESPONSIBLE FOR POWER CONNECTION BETWEEN HOUSE ELECTRICAL PANEL AND DISCONNECT SWITCH.
7. PROVIDE GREEN COATED 12-GAUGE SOLID COPPER DETECTION WIRE TAPED TO TOP OF PIPE, WITH 18 INCHES OF SLACK PROVIDED ABOVE TOP OF VALVE BOX.
8. LOCATION OF GRINDER PUMP ASSEMBLY SHALL BE WITHIN DESIGNATED PRIVATE EASEMENT PER PLAN. CONTRACTOR SHALL COORDINATE WITH HOMEOWNER PRIOR TO ENTERING PROPERTY AND RESTORE ALL DISTURBED AREAS TO EXISTING CONDITION.
9. GRINDER PUMP ENCLOSURE, INTERNAL COMPONENTS AND CONNECTIONS SHALL BE D-SERIES WETWELL/DRYWELL GRINDER PUMP STATION AS MANUFACTURED BY ENVIRONMENT ONE CORPORATION (E/ONE), OR APPROVED EQUAL. D-SERIES MODEL SHALL BE AS SPECIFIED ON PLANS OR IN SPECIFICATIONS.
10. THIS DETAIL IS APPLICABLE FOR GRINDER PUMP INSTALLATION IN DESIGNATED NON-FLOODPLAIN AREAS ONLY - SEE DETAIL S-5.02 FOR GRINDER PUMP INSTALLATION IN FLOODPLAIN AREAS.
11. IN RESIDENTIAL APPLICATIONS, STANDARD SEWER LATERAL CLEANOUT SHALL BE MODIFIED TO OMIT FRAME, COVER AND CONCRETE SUPPORT RING - CLEANOUT CAP SHALL BE SET FLUSH WITH ADJACENT GRADE.
12. PROVIDE A SHORT SECTION OF SCH. 40 PVC PIPE OUT OF GRINDER PUMP ENCLOSURE W/ADAPTER TO CONNECT TO SDR-35 PIPE.



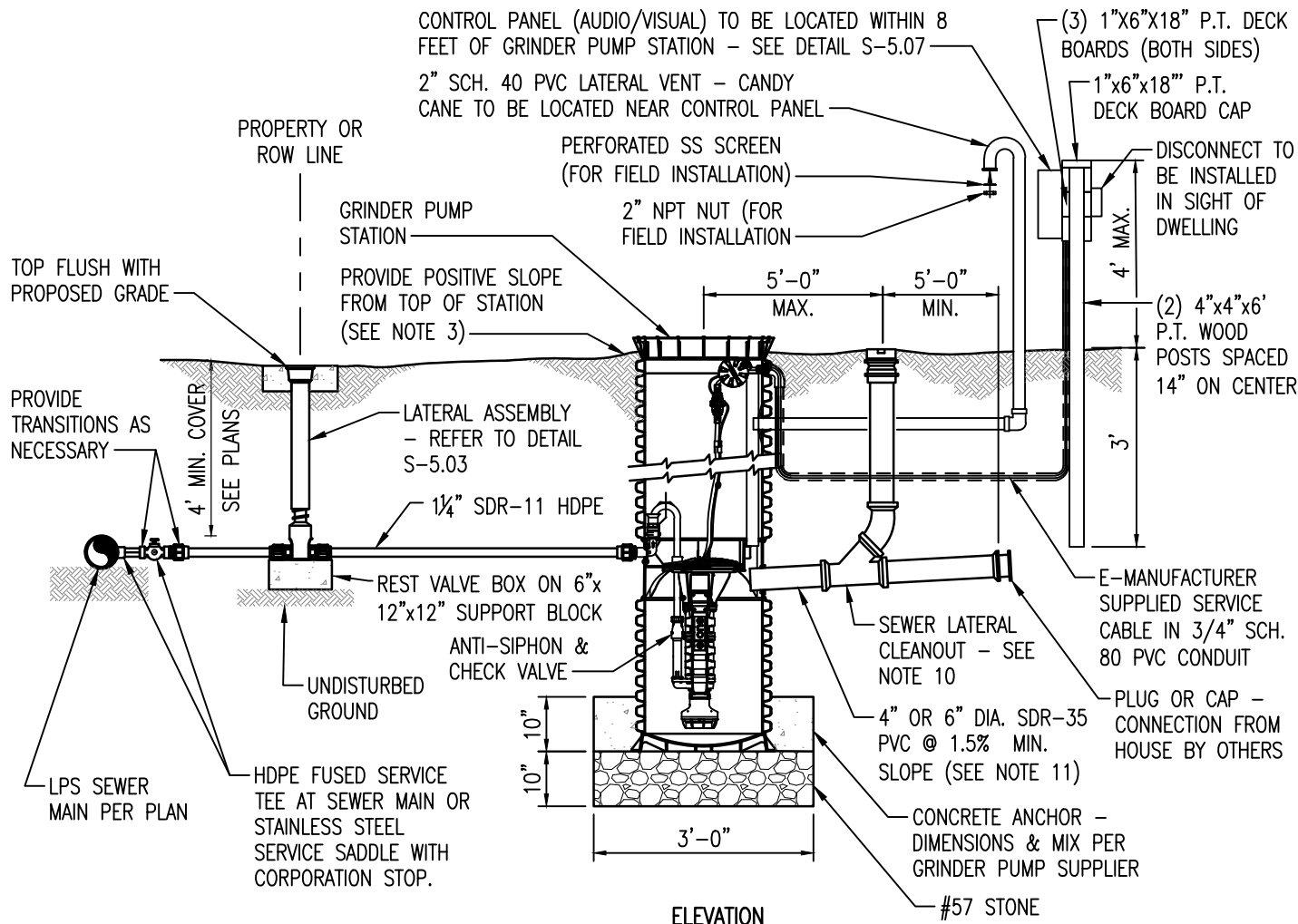
SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

STANDARD GRINDER PUMP ASSEMBLY

DETAIL
S-5.01

DATE ISSUED:
6/26/2023



NOTES

1. THE SEWER CONTRACTOR SHALL PROVIDE AND INSTALL ALL ITEMS AS INDICATED. REFER TO CURRENT COUNTY GRINDER PUMP CONNECTION PROCEDURES FOR OVERALL SEQUENCE OF INSTALLATION, OR AS SPECIFIED IN PLANS AND/OR SPECIFICATIONS.
2. SEWER LATERAL CONNECTION FROM THE HOUSE TO THE PVC STUB SHALL BE THE RESPONSIBILITY OF THE HOMEOWNER/PRIVATE PLUMBER.
3. THE CONTRACTOR SHALL GRADE AS REQUIRED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BASIN TOP. ALL FINISHED GRADES AROUND THE BASIN SHALL BE 1-3 IN. BELOW REMOVABLE BASIN LID. MOUNDING OF SOIL AROUND THE BASIN IS NOT PERMITTED.
4. CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE TEMPORARY POWER AND WATER TO CONDUCT PUMP TEST ON SITE FOLLOWING INSTALLATION OF GRINDER PUMP STATION AND ALL HOOK-UPS TO THE FORCE MAIN HAVE BEEN COMPLETED.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF CONTROL PANEL, POWER DISCONNECT, PUMP CABLING, DISCONNECT SWITCH, AND ALL RELATED INCIDENTALS PER THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE. CONTRACTOR IS NOT RESPONSIBLE FOR POWER CONNECTION BETWEEN HOUSE ELECTRICAL PANEL AND DISCONNECT SWITCH.
6. PROVIDE GREEN COATED 12-GAUGE SOLID COPPER DETECTION WIRE TAPED TO TOP OF PIPE, WITH 18 INCHES OF SLACK PROVIDED ABOVE TOP OF VALVE BOX.
7. LOCATION OF GRINDER PUMP ASSEMBLY SHALL BE WITHIN DESIGNATED PRIVATE EASEMENT PER PLAN. CONTRACTOR SHALL COORDINATE WITH HOMEOWNER PRIOR TO ENTERING PROPERTY AND RESTORE ALL DISTURBED AREAS TO EXISTING CONDITION.
8. GRINDER PUMP ENCLOSURE, INTERNAL COMPONENTS AND CONNECTIONS SHALL BE D-SERIES WETWELL/DRYWELL GRINDER PUMP STATION AS MANUFACTURED BY ENVIRONMENT ONE CORPORATION (E/ONE), OR APPROVED EQUAL. D-SERIES MODEL SHALL BE AS SPECIFIED ON PLANS OR IN SPECIFICATIONS.
9. THIS DETAIL IS APPLICABLE FOR GRINDER PUMP INSTALLATION IN DESIGNATED FLOODPLAIN AREAS ONLY.
10. IN RESIDENTIAL APPLICATIONS, STANDARD SEWER LATERAL CLEANOUT SHALL BE MODIFIED TO OMIT FRAME, COVER AND CONCRETE SUPPORT RING. CLEANOUT CAP SHALL BE SET FLUSH WITH ADJACENT GRADE.
11. PROVIDE A SHORT SECTION OF SCH. 40 PVC PIPE OUT OF GRINDER PUMP ENCLOSURE W/ADAPTER TO CONNECT TO SDR-35 PIPE.



SUSSEX COUNTY
ENGINEERING DEPARTMENT

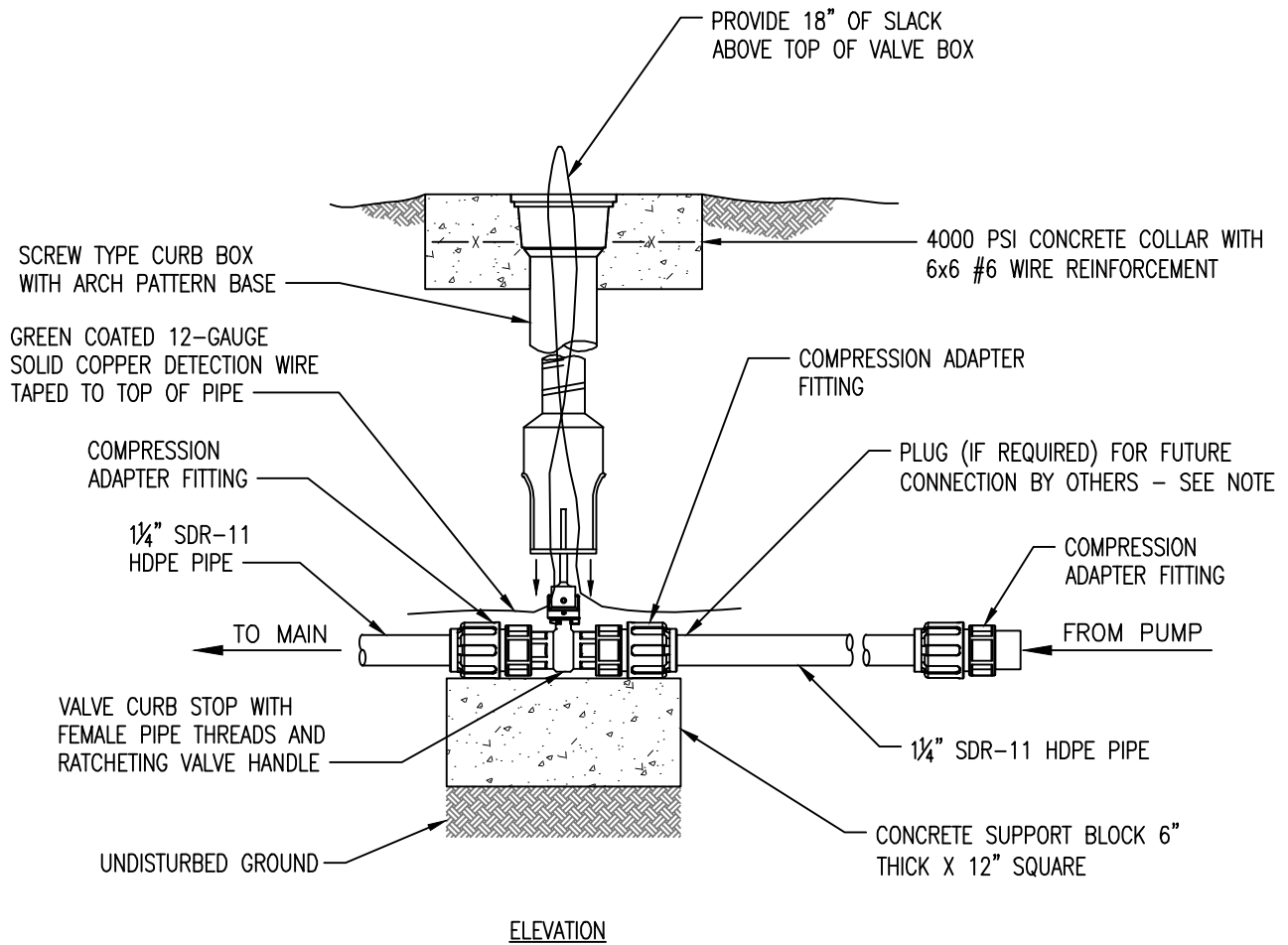
APPROVED:

[Signature]
SUSSEX COUNTY ENGINEER

STANDARD GRINDER PUMP ASSEMBLY (FLOODPLAIN AREAS)

DETAIL
S-5.02

DATE ISSUED:
6/26/2023



NOTE: FOR APPLICATIONS WHERE A GRINDER PUMP STATION IS NOT INSTALLED AS PART OF THE WORK, CONTRACTOR SHALL FURNISH AND INSTALL A SCHEDULE 80 PVC MALE THREADED PLUG INTO THE END OF VALVE ASSEMBLY FOR FUTURE CONNECTION.



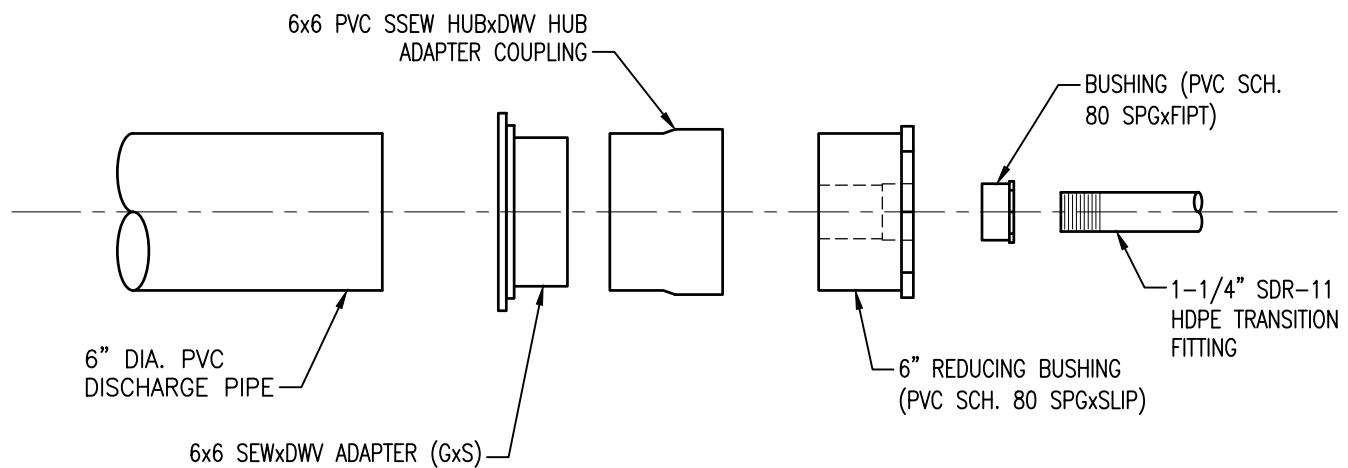
SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

LATERAL ISOLATION
VALVE

DETAIL
S-5.03

DATE ISSUED:
1/18/2023



SCHEMATIC

NOTE: THIS DETAIL REPRESENTS A DISCHARGE CONNECTION FROM A 1-1/4" LPS PIPE TO A 6" DIAMETER GRAVITY SEWER MAIN OR LATERAL. FOR DISCHARGE CONFIGURATION WITH PIPE SIZES THAT VARY FROM THOSE SHOWN ABOVE, APPROPRIATELY SIZED FITTINGS/ADAPTERS SHALL BE INCORPORATED.



SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

LPS DISCHARGE CONNECTION

DETAIL
S-5.04

LAST REVISED:
09/09/2022

CONCRETE COLLAR (MIN. 4,000 PSI) AROUND ENTIRE PERIMETER OF MANHOLE FRAME AND COVER. CONCRETE COLLAR IS ONLY REQUIRED IF MANHOLE IS NOT IN PAVEMENT (SEE NOTE 6)

HDPE ADJUSTABLE RINGS—MAX. 12" MAX. STACKING HEIGHT (SEE NOTE 6)

CEMENT MORTAR

30" HINGED MANHOLE FRAME AND COVER, PER EAST JORDAN IRON WORKS PART NUMBER 00148064L01, OR APPROVED EQUAL

FINISHED GRADE

D-LOK GASKET

EXTERIOR COATING: 2 COATS OF WATERPROOF BITUMASTIC

2" QUICK DISCONNECT FEMALE ADAPTER

2" MALE ADAPTER

WATER TIGHT GASKET

1½" DIA LOW PRESSURE FORCE MAIN

BRONZE BODIED GATE VALVE

CONTRACTOR TO TRANSITION AS NECESSARY

CONCRETE PIER/BUTTRESS

8" MIN. GRAVEL BEDDING

NO. 3 REBAR ENCASED IN POLYPROPYLENE MANHOLE STEPS PER DETAILS S-1.02 & S-1.03.

2" SCH 80 PVC RISER (SEE NOTE 5)

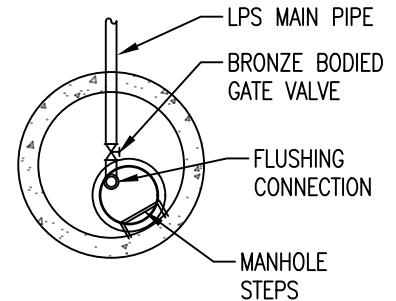
2"x1½" REDUCER (IF NEEDED)

MAIN SIZE 90° BUTT ELBOW

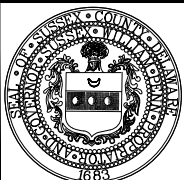
ELEVATION

NOTES:

1. MANHOLE RISER SECTION SHALL CONFORM TO DETAIL S-1.01.
2. ALL CONNECTIONS WITHIN MANHOLE SHALL BE SOLVENT WELD OR THREADED.
3. ALL THREADED PIPE AND FITTINGS SHALL BE SCHEDULE 80 PVC.
4. PROVIDE GREEN COATED 12-GAUGE SOLID COPPER DETECTION WIRE TAPED TO TOP OF FORCE MAIN PIPE. PROVIDE 18" OF SLACK ABOVE TOP OF MANHOLE AND WRAP TO TOP MANHOLE STEP.
5. RISER PIPE SHALL BE Laterally SUPPORTED FROM MANHOLE WALLS.
6. FOR MANHOLE LOCATIONS IN DELDOT MAINTAINED ROADWAYS REFER TO CURRENT DELDOT REQUIREMENTS WITH RESPECT TO CONCRETE COLLAR PLACEMENT AND ALLOWABLE MATERIALS FOR GRADE ADJUSTMENT RINGS.
7. IF LOW PRESSURE SEWER MAIN IS DIFFERENT IN SIZE TO THAT SHOWN, PROVIDE THE APPROPRIATELY SIZED FITTINGS TO MAKE TRANSITIONS.
8. GROUT BOTTOM OF MANHOLE TO SLOPE TOWARD 12" DRAIN HOLE.



PLAN VIEW



SUSSEX COUNTY
ENGINEERING DEPARTMENT

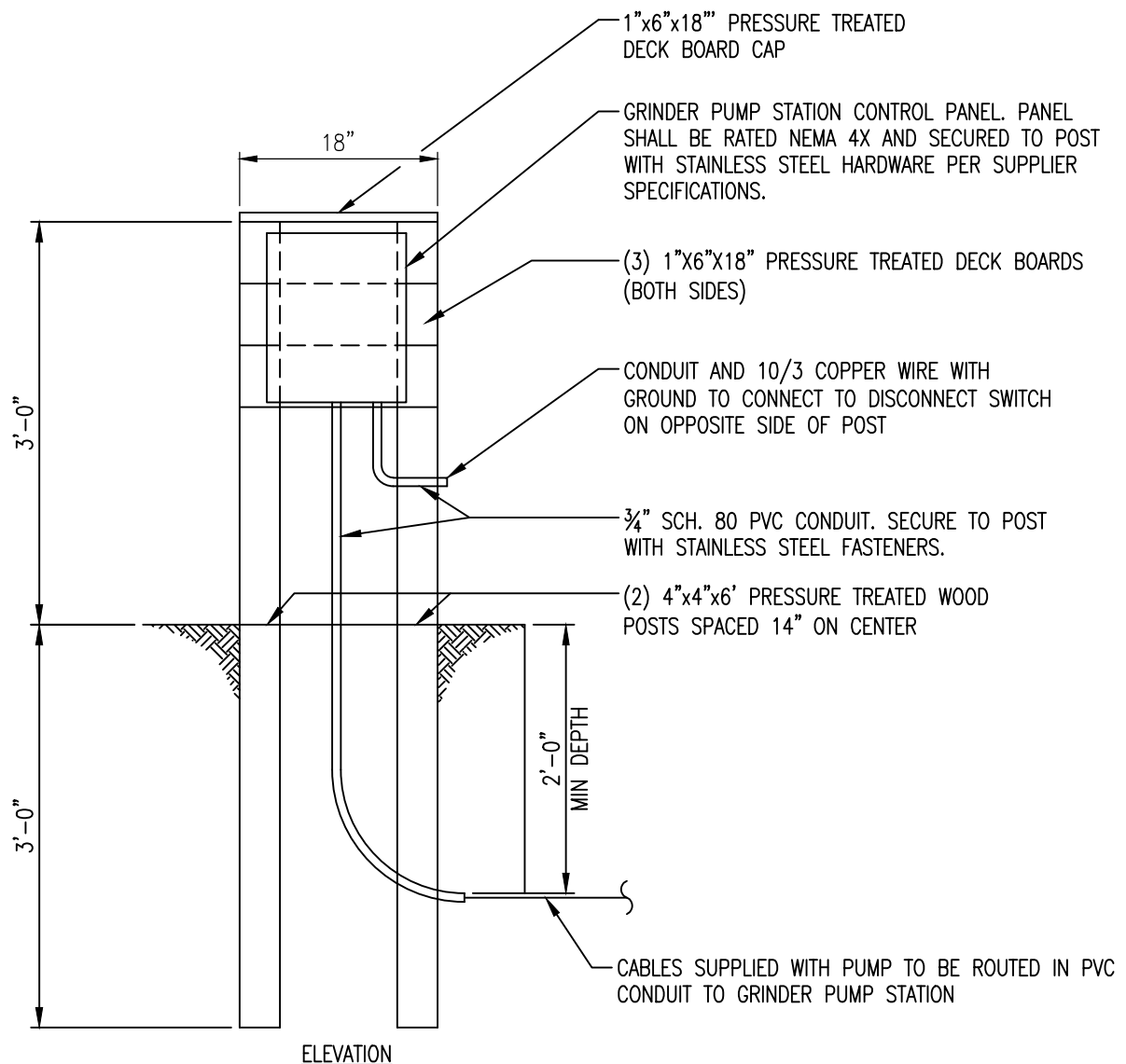
APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

**TERMINAL FLUSHING
CONNECTION**

DETAIL
S-5.05

LAST REVISED:
09/09/2022

APPROVED:



NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED PER THE NATIONAL ELECTRICAL CODE.
2. REFER TO THE LATEST VERSION OF SUSSEX COUNTY'S "PROCEDURES FOR GRINDER PUMP CONNECTIONS" FOR MINIMUM ELECTRICAL REQUIREMENTS OF POWER SUPPLY.
3. POWER DISCONNECT SWITCH ON HOUSE SIDE OF WOOD POST NOT SHOWN FOR CLARITY. DISCONNECT SWITCH SHALL BE SIEMENS MODEL WN2060U, 240 V. 60A, PULL OUT NON FUSED WITH NEMA 3R ENCLOSURE, OR APPROVED EQUAL.



SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

CONTROL PANEL
POST MOUNTING

DETAIL
S-5.07

DATE ISSUED:
6/26/2023